

Volume

#

R0374

BOOK A-374

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FIELD NOTES

OF THE SURVEY OF THE

Of the Meridian,

In the State of

EXECUTED BY

In the capacity of U. S. Surveyor, under instructions dated , 191.....
Issued by the United States Surveyor General to govern surveys included in
Group No., which were approved by the Commissioner of the General Land
Office, , 191....., pursuant to authority contained in the Act of
Congress dated , 191.....

Survey commenced , 191.....

Survey completed , 191.....

BOOK A-374

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INDEX DIAGRAM.

Township 34 South, Range 9 West

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"A"

X.3.P2
X.3.P3

FIELD NOTES

RE
OF THE SURVEY OF THE

THIRD AUXILIARY GUIDE MERIDIAN

THROUGH

TOWNSHIP NO. 33 SOUTH,

OR

EAST BOUNDARY

O F

TOWNSHIP NO. 33 SOUTH

RANGE NO. 18 WEST

Of the Salt Lake Base and Meridian,

UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11, 1901.

Survey commenced October 9, 1901.

Survey completed October 12, 1901.

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High 5-68-90 ✓
 Low 0-10-60 ✓

BOOK A-37A

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley Chairman.

Edward H. Parry Chairman.

William MacFarlane, Chairman.

William Dix, Chairman.

Edward H. Parry, Moundman.

Hillman Dalley, Moundman.

Edward H. Parry Axeman.

Hillman Dalley, Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 33 South, Range 18 West

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PRELIMINARY OATHS OF ASSISTANTS.

We, Hillman Dalley & Edward H. Parry and William Macfarlane & William Dix do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

3rd Auxiliary Guide Meridian through Tps. 33 S., bet. Rs. 17 and 18 W. of the Salt Lake Base and Meridian, Utah. Re-

Hillman Dalley, Chainman. William Macfarlane, Chainman.

Edward H. Parry, Chainman. William Dix, Chainman.

Subscribed and sworn to before me this 7th.

day of October, 1901, 189



My Commission Expires
Mar. 20 1903.

Lessora C. Dalley

Notary Public, Iron County, Utah

We, Edward H. Parry and Hillman Dalley do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

3rd Auxiliary Guide Meridian through Tps. 33 S., bet. Rs. 17 and 18 W. of the Salt Lake Base and Meridian, Utah. Re-

Edward H. Parry, Moundman.

Hillman Dalley, Moundman.

Subscribed and sworn to before me this 7th.

day of October, 1901, 189



My Commission Expires
Mar. 20 1903.

Lessora C. Dalley

Notary Public, Iron County, Utah

We, Edward H. Parry and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

3rd Auxiliary Guide Meridian through Tps. 33 S., bet., Rs. 17 and 18 W. of the Salt Lake Base and Meridian, Utah. Re-

Edward H. Parry, Axman.

Axman.

Subscribed and sworn to before me this 7th.

day of October, 1901, 189



My Commission Expires
Mar. 20 1903.

Lessora C. Dalley

Notary Public, Iron County, Utah

I, Hillman Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of 3rd Auxiliary Guide Meridian through Tps. 33 S., bet. Rs. 17 and 18 W. of the Salt Lake Base and Meridian, Utah. Re-

Hillman Dalley, Flagman.

Subscribed and sworn to before me this 7th.

day of October, 1901, 189



My Commission Expires
Mar. 20 1903.

Lessora C. Dalley

Notary Public, Iron County, Utah

East Boundary Township 33 S.R. 18 W.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33S.

Chains. Resurvey commenced Oct. 9, 1901 and executed with a W. & L. E. Gurley light mountain solar transit No. 31, provided with R. M. Jones double latitude arc, and reversable level bubble. The horizontal limb is provided with two double verniers, placed opposite to each other, which read to single minutes of arc; the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds of arc respectively.

The instrument was examined, tested on the true Meridian at Salt Lake City, Utah, found correct, and was approved by the Surveyor General for Utah July 27th, 1901.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a. m. and p. m. hours, with a true Meridian determined by observations on Polaris, I proceed as follows:

Oct. 9, 1901 at the cor. of Tps. 33 and 34 S Rs. 17 and 18 W, latitude $37^{\circ} 54'$ N longitude $113^{\circ} 45' 30''$ W at 3h 47m.p.m.l.m., t., I set off $37^{\circ} 54'$ N on the lat. arc; $6^{\circ} 15'$ S on the decl. arc; and determine with the solar a true Meridian, and mark a point thereof on a wooden plug set firmly in the ground 5.00 chs. N of the corner.

Oct. 9, 1901; At 6h 17m p.m., l. m. t., I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a groove cut on a wooden plug driven in the ground 5.00 chs. N of my station. Oct. 9, 1901.

East Boundary Township 33 S. R. 18 W.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33S.

Chains. Oct. 10, 1901: At 7h 30m a. m., l. m. t.,

I lay off the azimuth of Polaris $1^{\circ} 33'$ to the west, and mark the true Meridian thus determined by a tack driven in the wooden plug set Oct. 9, on which the true Meridian falls 0.35 in. west of the mark determined by the solar.

At 7h 47m a.m., l. m. t., I set off $37^{\circ} 54'$ N on the lat. arc; $6^{\circ} 30'$ S on the decl. arc; and mark a point in the true Meridian determined with the solar by a cross cut on the plug already set 5.00 chs. N of my station; this mark falls 0.25 in. W of the true Meridian established by the Polaris observation.

The solar apparatus by p. m. and a. m. observations, defines positions for true Meridians, respectively about $0^{\circ} 18''$ E and $0^{\circ} 13''$ W of the true Meridian established by Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true Meridian at 8h a. m. is N $16^{\circ} 43'$ W, the angle thus determined, reduced by the table, page 100, gives the mean magnetic declination $16^{\circ} 40'$ E.

Before commencing the survey of the West and North boundaries of this Tp. I deem it advisable to test the lengths and courses of the old lines on the E and S boundaries thereof; therefore I proceed as follows:

East Boundary T. 33 S.R. 18 W.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S.

Chains.

The old corner of Tps. 33 and 34 S Rs. 17 and 18 W is a granite stone 8x7x6 ins. above ground, with 6 notches on N.S.E. and W. edges, witnessed by traces of pit and mound. As this cor. does not contain the required number of cubic inches as prescribed by the Manual, I re-establish the cor. at its original position as follows:

Set a granite stone 26x12x10 ins., 20 ins. in the ground, for re-established cor. of Tps. 33 and 34 S Rs. 17 and 18 W marked 33 S on N E, 17 W on S E, 34 S on S W, and 18 W on N W faces, with 6 notches on each edge; dug pits 24x24x12 ins. on each line N, E, and W 4 ft. and S of stone 8 ft. dist., and raised a mound of earth 5 ft. base, 2 1/2 ft. high S of cor.

From the re-established cor. I run North on 3d Auxiliary Guide Meridian on a blank line bet. secs. 31 and 36 at

39.98 I find the 1/4 sec. cor. west 29 lks. dist., and at 79.98 the old cor. of secs. 25, 30, 31, and 36 bears W 70 lks. dist.

Thence, I continue my line north; find no part of the east boundary in alinement, and that many of the corners are either missing or nearly obliterated.

At 5 miles and 78.90 chs. intersect E and W line 140 lks. E of the cor. of Tps. 32 and 33 S. Rs. 17 and 18 W.

Oct. 10, 1901.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S.

	Tps. 33 S Rs. 17 and 18 W not having been subdivided I commence at the cor. of Tps. 32 and 33 S Rs. 17&18 W, and resurvey the 3rd Auxiliary Guide Meridian through Tps. 33 S bet. Rs. 17 and 18 W as follows:
	Oct. 11, 1901:- At cor. of Tps. 32 & 33 S Rs. 17 and 18 W which is a volcanic stone 12x10x8 ins. above ground, marked and witnessed as described by the Surveyor General. I set off $37^{\circ} 59'$ N on the lat. arc; $6^{\circ} 55'$ S. on the decl. arc; and at 8 h. 47m. a.m., l. m. t., determine a true Meridian with the solar.
	Thence I run S. $0^{\circ} 10'$ E bet. secs. 1 & 6. Descend through thick cedars; bears E and W.
18.50	Leave thick cedars, and enter scattering sage, nut pine and cedars. The difference bet. measurements of 38.90 chs. by 2 sets of Chainmen is 4 lks, position of middle point By 1st set, is 38.92 chs. by 2nd set, is 38.88 chs., the mean of which is
38.90	Set a trachyte stone 16x8x8 ins., 11 ins. in the ground for 1/4 sec. cor., Marked 1/4 on W face and raised a mound of stone 2 ft. base 1 1/2 ft. high west of cor; pits impracticable. A nut pine 10 ins. in diam. bears S $23^{\circ} 30'$ W 74. lks. dist. Marked 1/4 S. 1 B T.
38.89	The bearing tree for old 1/4 sec. cor. bears west 29 lks. dist. Find no trace of the old cor. and destroy all marks on old B. T.
44.00	Ravine, heads N E 20 chs., and drains S W about 8 chs., where it joins the main ravine. Ascend over west slope of ridge.
61.70	Top of ascent on S W point of spur.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S?

Chains.

	Descending over S W slope of high ridge.
71.50	Leave scattering sage, nut pine and cedars, and Enter dense sage undergrowth. Dif. bet. measurements of 78.90 chs. by 2 sets of Chainmen is 6 lks., position of middle point By 1st set, is 78.93 chs. by 2nd set, is 78.87 chs. the mean of which is
78.90	Set a trachyte stone 18x10x8 ins., 12 ins. in the ground for cor. of secs. 1, 6, 7, 12; marked with 1 notch on N and 5 notches on S edges, and raised a mound of stone 2 ft. base, 1 1/2 ft. high, west of corner. Pits impracticable. No trace of old corner.
	Land, Mountainous. Soil, rocky; 3rd and 4th rate..
	Timber, Heavy cedar and pinion pine on 71.50 chs. Dense undergrowth of sage on 6.70 chs. Mountainous land on 78.90 chs.
<hr/>	
	S 0° 10' E bet. secs. 7 and 12.
	Descending through sage undergrowth,
9.00	ravine in bottom of hollow; drains S E.
20.50	Ravine; drains S E.
	Ascend.
29.50	top of ridge; bears S. E. and N. W.
	Descend from ridge,
35.00	to foothills on N side of valley 150 ft. below top of ridge. Dif bet. measurements of 40.00 chs. by 2 sets of Chainmen is 6 lks., position of middle point

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S.

Chains.

- By 1st set, is 40.03 chs.
- By 2nd set, is 39.97 chs., the mean of which is
- 40.00 Set a trachyte stone 14x10x8 ins., .9 ins. in
the ground for 1/4 sec. cor., marked 1/4 on W face;
and raised a mound of stone 2 ft. base, 1 1/2 ft.
high W of cor., pits impracticable.
- Found no traces of old 1/4 sec. cor.
- Descending over rolling foot hills through dense
sage brush undergrowth.
- Dif. bet. measurements of 80.00 chs. by 2 sets of
Chainmen is 10 lks., position of middle point
- By 1st set, is 80.05 chs.
- By 2nd set, is 79.95 chs., the mean of which is
- 80.00 Set a trachyte stone 16x 10x6 ins., 11 ins. in the
ground for cor. to secs. 7, 12, 13 & 18, marked
with 4 notches on the S and 2 notches on the N edges;
raised a mound of stone 2 ft. base, 1 1/2 ft. high
W of cor.; pits impracticable.
- All traces of old corner obliterated.
- Land, Mountainous.
- Soil, rocky; 2nd and 3rd rate.
- Sage undergrowth. No timber.
- Mountainous land covered with dense sage brush
on 80.00 chs.
- At this cor. Oct. 11, 1901, at 11h 47m a. m., I set
off 6° 58' V S on the decl. arc., and observe
the sun on the Meridian; the resulting lat. is
37° 57' N.
-

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S.

Chains.

	S 0° 10' E bet secs. 13 and 18 descending over rolling foot hills, through dense sage brush and greasewood undergrowth. The dif. bet. measurements of 40.00 chs. by 2 sets of Chainmen is 4 lks., the position of middle point By 1st set, is 40.02 chs. by 2nd set, is 39.98 chs. the mean of which is
40.00	Set a trachyte stone 14x8x6 ins., 10 ins. in the ground for 1/4 sec. cor., marked 1/4 on W face; and raised a mound of stone 2 ft. base, 1 1/2 ft. high W of cor., pits impracticable. Find no traces of old 1/4 sec. cor.
48.52	Hollow, 3 chs. wide, 2 ft. deep; drains S E.
63.75	Wash, 4 ft. wide, and 3 ft. deep; drains S E.
64.15	Road, bears N E and S W., to Hooley Spring. The dif. bet. measurements of 80.00 chs. by 2 sets of Chainmen is 10 lks., position of middle point By 1st set, is 80.05 chs. by 2nd set, is 79.95 chs. the mean of which is
80.00	Set a trachyte stone 12x8x8 ins., 8 ins. in the ground for cor. to secs. 13, 18, 19, .24; marked with 3 notches on N and S edges; raised a mound of stone 2 ft. base, 1 1/2 ft. high W of cor., pits impracticable. All traces of old sec. cor. obliterated. Land, rolling foot hills, sloping S E. Soil, rocky; 2nd and 3rd rate. No timber. Dense sage brush and greasewood undergrowth on 80.00 chs.

Resurvey of 3rd Auxiliary Guide Meridian through Tps. 33 S.

Chains.

- S $0^{\circ}10'$ E bet. secs. 19 and 24
 Descending over rolling foot hills, sloping S E,
 through sage brush and greasewood undergrowth.
- 6.20 Wash 3 ft. wide and 2 ft. deep; drains S.E.
- 38.23 Road from Cedar City to Trough Springs; bears S 80°
 E and N 80° W..
- 38.60 Wash 3 ft. wide and 2 ft. deep; drains S E.
 Dif. bet. measurements of 40 chs. by 2 sets of
 Chainmen is 4 lks., position of middle point
 By 1st set, is 40.02 chs.
 By 2nd set, is 39.98 chs. the mean of which is
- 40.00 Set a trachyte stone 16x12x8 ins., 11 ins. in the
 ground for 1/4 sec. cor., marked 1/4 on W face; and
 raised a mound of stone 2 ft. base, 1 1/2 ft.
 high W of cor.; pits impracticable.
 Find no traces of old 1/4 sec. corner.
- 53.95 Wash 4 ft. wide and 3 ft. deep; drains S E.
- 59.95 Wash 3 ft. wide and 3 ft. deep; drains S E.
- 64.50 Road from Cedar City to Trough Springs; bears **S**
 $65^{\circ}E$ and **N** $65^{\circ}W$.
 Dif. bet. measurements of 80 chs. by 2 sets of
 Chainmen is 8 lks. ; position of middle point
 By 1st set, is 80.04 chs.
 by 2nd set, is 79.96 chs., the mean of which is
- 80.00 Set a trachyte stone 14x10x5 ins., 10 ins. in the
 ground for cor. to secs. 19, 24, 25 and 30; marked
 with 2 notches on the S and 4 notches on the N
 edges and raised a mound of stone 2 ft. base, 1 1/2
 ft. high W of cor., pits impracticable.
 The old cor., a trachyte stone 12x8x4 ins., loose
 in the ground, bears S 3° W 46 links dist. I destroy
 all traces of this old sec. cor.
 Land, foot hills sloping S E.
 Soil, rocky; 2nd and 3rd rate.
 No timber.

East Boundary T.33 S., R.18 W.

Resurvey of 3rd Auxiliary Guide Meridian Through Tps. 53 S.

- Chains. Dense sagebrush and greasewood undergrowth on 80.00 chs.
18.00 chs.
- Oct. 11, 1901: At this cor. at 3^h 47^m p.m.^{lmt}, I set off 37° 55' 35" N. on the lat. arc, 70° 0' S. on the decl. arc; and determine a true meridian with the solar. Thence I run S.0° 10' E. bet. Secs. 25 and 30 over gently rolling foot hills; course N.E. and S.W. through sage brush and greasewood undergrowth.
- 18.20 Wash 25 lks. wide, 4 ft. deep, drains S.E.
Trail bears N.W. and S.E.
- 38.00 Leave foot hills for nearly level ground in valley; slopes gently to S.E. through dense sage brush and greasewood undergrowth.
Dif. bet. measurements of 40.00 chs. by 2 sets of Chainmen is 2 links, position of middle point
By 1st. set is 40.01 chs.
By 2nd. set is 39.99 chs., the mean of which is
- 40.00 Set a trachyte stone 14x12x5 ins., 10 ins. in the ground for 1/4 Sec. cor., marked 1/4 on W. face; and raised a mound of stone 2 ft. base, i 1/2 ft. high W. of cor.; pits impracticable.
Find no traces of old 1/4 Sec. cor.
Dif. Bet. measurements of 80.00 chs. by 2 sets of Chainmen is 2 links, position of middle point
By 1st. set is 80.01 chs.
By 2nd. set is 79.99 chs., the mean of which is
- 80.00 Set a trachyte stone 14x12x5 ins., 10 ins. in the ground for cor. to Secs. 25, 30, 31 and 36; marked with 5 notches on the N. and 1 notch on the S. edges.
Dug pits 18x18x12 ins. in each Sec. 5 1/2 ft. dist., and raised a mound of earth 4 ft. base, 2 ft. high W. of cor.
From this corner the old Sec. cor., a granite stone 10x8x6 ins., without witness points, bears S. 87° 15' W. 46 lks. dist.

Resurvey of 3rd Auxiliary Guide Meridian through Tps.33 S.

- Chains. I destroy all traces of the old corner.
- Land, Escalante Valley nearly level, and rolling foot hills.
- Soil, clay loam; cut with beds of gravel and stone, 1st. and 2nd. rate.
No timber.
Dense sage brush and greasewood undergrowth on 80.00 chs.
- Oct. 11, 1901.
-
- Oct. 12, 1901. At cor. of Secs. 25, 30, 31 and 36
I set off $37^{\circ} 54' 40''$ N. on the lat. arc; $70^{\circ} 17'$ S. on the decl. arc, and at $8^{\text{h}} 47^{\text{m}}$ a.m., determined the true meridian with the solar; thence I run
 $S.0^{\circ}10' E.$ bet. Secs. 31 and 36.
- Descending over nearly level land through dense sage and greasewood undergrowth.
- 34.18 Road from Pioche to Milford bears S.W. and N.E.
The dif. Bet. measurements of 40.00 chs. by 2 sets of Chainmen is 2 lks., position of middle point
By 1st. set is 40.01 chs.
By 2nd. set is 39.99 chs., the mean of which is
- 40.00 Set a trachyte stone 16x10x6 ins., 11 ins. in the ground for 1/4 Sec. cor., marked 1/4 on W. face; dug pits 18x18x12 ins. N. and S. of stone 3 ft. dist., and raised a mound of earth 3 1/2 ft. base, 1 1/2 ft. high W. of cor.
The old 1/4 Sec. cor., a granite stone 12x8x5 ins. with witness points obliterated, bears $S.83^{\circ}15'$ W. 18 lks. dist.
- I destroy all traces of this old 1/4 Sec. corner.
- 70.00 Leave dense sage and greasewood undergrowth and enter grass and desert weed, over nearly level land.

II.

East Boundary T.33 S., R.18 W.

Resurvey of 3rd Auxiliary Guide Meridian through Tps.33 S.

Chains.	The dif.bet.meashrements of 80.00 chs. by 2 sets of Chainmen is 4 lks., position of middle point By 1st.set is 80.02 chs., By 2nd.set is 79.98 chs., the mean of which is
80.00	The cor.of Tps.33 and 34 S.,Rs.17 and 18 W., heretofore described. Land,nearly level;Escalante Valley adjoining foot hills. Soil,clay loam;lst.rate. No timber. Grass and Desert weed on 10 .00 chs. Dense sage and greasewood undergrowth on 70.00 chs.

Oct.12,1901.

GENERAL DESCRIPTION.

For general description, see sub-division notes of this this township.

.....*Mayhew H. Dally*.....,

U.S.Dep.Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley,

, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of 3rd. Auxiliary Guide Meridian through Tps. 33 S., bet. Rs. 17 and 18 W. of the Salt Lake Base and Meridian, State of Utah, showing the respective capacities in which they acted:

Hillman Dalley	Chainman.	William Macfarlane	, Chainman.
Edward H. Parry	Chainman.	William Dix	, Chainman.
		Edward H. Parry	, Moundman.
		Hillman Dalley	, Moundman.
		Edward H. Parry	, Axman.
			, Axman.
		Hillman Dalley	, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley,

, United States Deputy Surveyor, in surveying all those parts or portions of the 3rd. Auxiliary Guide Meridian through Tps. 33 S., bet. Rs. 17 and 18 W.

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Edward H. Parry Chainman William Macfarlane Chainman.
Edward H. Parry Chainman William Dix Chainman.
Edward H. Parry Chainman Edward H. Parry Moundman.
Hillman Dalley Moundman.
Edward H. Parry Axman.
Edward H. Parry Axman.
Hillman Dalley Flagman.

Subscribed and sworn to before me this 20th.

day of August, 1906., 189 }

STATE
SIXTY EIGHT

Apr. 5

7

Senora G. Dalley
Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

Matthew H. Dalley

United States Deputy Surveyor

Edward R. Anderson

solemnly swear that, in pursuance of a contract received from
Captain General Surveyor General for Utah, bearing date of the
11th. day of April, 1901, I have well, faithfully, and truly, in my said
power pursued and in strict conformity with the instructions furnished by the United States Surveyor
General for Utah, the Manual of Surveying Instructions, and the laws of the
United States, surveyed all those parts or portions of 3rd. Auxiliary Guide Meridians,
through Tps. 33 N., bet. Rgs. 17 and 18 W.

of the Salt Lake
Road and Railroad, in the State of Utah, which are represented in the
Surveying field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said Survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for Utah, and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such Survey; and should any fraud be detected, I will suffer
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Matthew H. Dalley
United States Deputy Surveyor

Subscribed by said Matthew H. Dalley and sworn to before me
the 22nd day of August, 1906. 189

Lloyd M. Marin
County Clerk, Iron County, Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 22, 1913.

To
The foregoing field notes of the survey of the Third Auxiliary Guide Meridian,
Stephen Township No. 33 South, between Range 17 and 18 West of the
Salt Lake Base Line Meridian, Utah.

Received for
Captain General Surveyor
dated April 11, 1901, having been
thoroughly examined, and the necessary corrections and explanations made, the said field notes, and the
accompanying manuscript, are hereby approved.

Pearce & Hall
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-mentioned surveys is
has been correctly copied from the original notes on file in this office.

James L. S.
United States Surveyor General.

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B.

FIELD NOTES

RE
OF THE SURVEY OF THE And

CORRECTIVE RESURVEY OF THE

SOUTH BOUNDARY

O F

TOWNSHIP NO. 33 SOUTH

RANGE NO. 18 WEST

Of the SALT LAKE BASE AND Meridian,

UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11, 1901

Survey commenced October 12, 1901.

Survey completed August 21, 1912.

6-101

Petro low 1-00-00 ✓
 Rev. high 3-79-60 ✓
 " low 1-00-00 ✓

NAMES AND DUTIES OF ASSISTANTS.

William Macfarlane Chainman.

William Dix Chainman.

Edward H. Parry, Moundman.

Hillman Dalley, Moundman.

Edward H. Parry, Axman.

Hillman Dalley, Flagman.

Corrective Resurvey:

Hillman Dalley Chainman & Moundman.

Maeser Dalley Chainman & Moundman.

Maeser Dalley Axman.

Rulon Dalley, Axman & Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 33 South, Range 18 West

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
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30	29	28	27	26	25
31	32	33	34	35	36
3	3	5	6	6	1

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, William Macfarlane and William Dix, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of South Boundary of Tp. 33 S., R. 18 W. of the Salt Lake Base and Meridian, Utah.

William Macfarlane, Chainman.
William Dix, Chainman.

Subscribed and sworn to before me this 7th.
day of October, 1901, 189 }

 My Commission Expires
Mar. 20, 1903

Lessora C. Dally
Notary Public, Iron County, Utah.

We, Edward H. Parry and Hillman Dalley, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of South Boundary of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Edward H. Parry, Moundman.
Hillman Dalley, Moundman.

Subscribed and sworn to before me this 7th.
day of October, 1901, 189 }

 My Commission Expires
Mar. 20, 1903

Lessora C. Dally
Notary Public, Iron County, Utah.

We, Edward H. Parry and Hillman Dalley, do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of South Boundary of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Edward H. Parry, Axman.
Hillman Dalley, Axman.

Subscribed and sworn to before me this 7th.
day of October, 1901, 189 }

 My Commission Expires
Mar. 20, 1903

Lessora C. Dally
Notary Public, Iron County, Utah.

I, Hillman Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of South Boundary of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Hillman Dalley, Flagman.

Subscribed and sworn to before me this 7th.
day of October, 1901, 189 }

 My Commission Expires
Mar. 20, 1903.

Lessora C. Dally
Notary Public, Iron County, Utah.

BOOK A-374

INDEX DIAGRAM.

Township 33 South, Range 18 West, S.I.M.

6	5	4	3	2	1	3
7	8	9	10	11	12	4
18	17	16	15	14	13	4
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32	31	10	10	9	9	

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley

and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of S. bdy. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian.

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.

Subscribed and sworn to before me this 30th.

day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley

Notary Public, Iron Co. Utah

WE, Maeser Dalley

and Hillman Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of S. bdy. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Moundman.
Hillman Dalley, Moundman.

Subscribed and sworn to before me this 30th.

day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley

Notary Public, Iron County, Utah.

WE, Maeser Dalley

and Rulon Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of S. bdy. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Axman.
Rulon Dalley, Axman.

Subscribed and sworn to before me this 30th.

day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley

Notary Public, Iron County, Utah.

I, Rulon Dalley

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of S. bdy. of T. 33 S., R. 18 W., of the Salt Lake Base and Meridian.

Rulon Dalley, Flagman.

Subscribed and sworn to before me this 30th.

day of July, 1912.



My Commission Expires
May 28th, A. D. 1913

Matthew H. Dalley

Notary Public, Iron County, Utah.

RESURVEY OF SOUTH BOUNDARY OF T. 33 S., R. 18 W.

Chains. Before commencing to subdivide I deem it necessary to resurvey the south boundary of the township.

Resurvey commenced October 12, 1901, and executed with the instrument described in book "A" of this survey. I know the instrument to be in adjustment from recent observations made Oct. 9 and 10, 1901, and recorded in book "A" of this survey.

I begin at the cor.of Tps.33 and 34 S., Rs.17 and 18 W. heretofore described, and at 9h.47m.a.m.l.m.t., I set off $37^{\circ} 54' N.$ on the lat.arc; $7^{\circ} 19' S.$ on decl.arc; and determine a meridian with the solar. Thence I run on retracement line,

$S.89^{\circ} 57' W.$ bet.secs.1 and 36,

Over level land, sloping SE. Clay loam, somewhat gravelly, covered with grass and desert weed.

40.03 Fall 15 lks.N.of the old $\frac{1}{4}$ sec.cor., which is a granite stone 8x6x4 ins.above ground, with witness points nearly obliterated. I re-establish this corner as follows:

Set a granite stone 18x12x10 ins., 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins. E. and W.of stone, 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.

I destroy all trace of old $\frac{1}{4}$ sec.cor.

62.42 The old Pioche Road bears NE. and SW.

80.00 Fall 30 lks.N.of the cor.of secs.1,2,35, and 36, which is a granite stone 12x6x2 ins.above ground, with witness points nearly obliterated. I re-establish this corner in original position as follows:

Set a granite stone 12x12x8 ins., 8 ins.in the ground for cor.of secs.1,2,35, and 36, marked with 1 notch on E. and 5 notches on W.edges; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

Resurvey of South Boundary of T. 33 S., R. 18 W.

Chains. Land nearly level.

Soil clay loam with some gravel; 1st rate.

White sage and shadscale undergrowth and grass.

No timber.

The bearing of true line bet. secs. 1 and 36, is therefore N.89° 44'E.

Continuing retracement line S.89° 57'W. from cor. of secs. 1, 2, 35, and 36; at 40.00 chs. find no trace of old $\frac{1}{4}$ sec. cor., and at 80.00 chs. find no trace of old cor. of secs. 2, 3, 34, and 35. Thence I continue my retracement line S.89° 57'W. and find no trace of $\frac{1}{4}$ sec. or sec. cors., and at 4 mi. 79.20 chs. fall 152 lks. N. of cor. of Tps. 33 and 34 S., Rs. 18 and 19 W., which is a granite stone broken to pieces, with trace of mound of stone, but no other witness points. The course of this line is, therefore S.89° 44'W.
I re-establish this corner in its original position as follows:

Set a trachyte stone 20x12x10 ins., 15 ins. in the ground for cor. of Tps. 33 and 34 S., Rs. 18 and 19 W. marked with 6 notches on each edge,

33 S on NE.

18 W on SE.

34 S on SW., and

19 W on NW. faces; from which

A double cedar 8 ins. diam. bears N.16 $\frac{1}{2}$ ° E. 39 $\frac{1}{2}$ lks. dist., marked T 33 S R 18 W S 31 B T

A nut pine 8 ins. diam. bears S.22 $\frac{1}{2}$ ° E. 34 $\frac{1}{2}$ lks. dist., marked T 34 S R 18 W S 6 B T

A cedar 10 ins. diam. bears S.18 $\frac{1}{2}$ ° W. 39 lks. dist., marked T 34 S R 19 W S 1 B T

A nut pine 8 ins. diam. bears N.57° W. 50 $\frac{1}{2}$ lks. dist., marked T 33 S R 19 W S 36 B T
Oct. 12, 1901.

Resurvey of South Boundary of T. 33 S., R. 18 W.

- Chains. Oct. 13: At 9 h. 46 m.a.m.l.m.t. I set off $37^{\circ} 54' N.$ on lat.arc; $7^{\circ} 41' S.$ on decl.arc; and determine a meridian with the solar at above described cor. to Tps. 33 and 34 S., Rs. 18 and 19 W. Thence I run
 $N.89^{\circ} 44' E.$ bet. secs. 6 and 31
Ascending gradually through scattering sagebrush and cedars.
- 4.20 Foot of ridge, bears NE. and SW. Asc:W is slope of ridge.
- 21.20 Top of granite ridge about 250 ft. high bears SW. and NE. Descend over E. slope.
- 32.20 Set a granite stone 20x10x8 ins., 15 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable. Find no trace of old $\frac{1}{4}$ sec.cor.
- 55.20 Leave steep descent. Descend gradually.
- 79.20 Set a trachyte stone 16x10x6 ins.. 11 ins. in the ground for cor. of secs. 5, 6, 31, and 32, marked with 5 notches on E. and 1 notch on W. edge; from which
A cedar 6 ins. diam. bears $N.42^{\circ} 30' E.$ 57 lks. dist.
marked T 33 S R 18 W S 32 B T
A double cedar 8 ins. diam. bears $S.65^{\circ} 45' E.$ 137 lks. dist. marked T 34 S R 18 W S 5 B T
A double cedar 10 ins. diam. bears $S.24^{\circ} W.$ 110 lks. dist., marked T 34 S R 18 W S 6 B T
A cedar 8 ins. diam. bears $N.79^{\circ} 30' W.$ 163 lks. dist.
marked T 33 S R 18 W S 31 B T
I find no trace of the old sec.cor.
Land mountainous.
Soil gravelly and stony; 3d and 4th rate.
Timber cedars. Undergrowth sagebrush.
Mountainous land on 79.20 chs.

$N.89^{\circ} 44' E.$ bet. secs. 5 and 32,

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Resurvey of South Boundary of T. 33 S., R. 18 W.

- Chains. Descending gradually through scattering cedars and sagebrush undergrowth.
- 7.00 Dave Francis' Eight Mile cabin, bears N.about 10 chs.
- 10.00 Joseph Comerilh's Eight Mile Cabin bears N.about 5.00chs.
- 16.00 Wash 25 lks.wide, 10 ft.deep, drains SE.
- 17.36 Road from Cedar City to Stateline bears SE. and NW.
- 20.60 Trail bears SE. and NW.
- 21.80 Wash in bottom of ravine, 50 lks.wide, 10 ft.deep,
drains SE. Ascend.
- 30.00 Top of spur of ridge, 100 ft.high projects S.5.00 chs.
Descend over easterly and scutherly slopes of spur and
ridge.
- 40.70 Set a trachyte stone 20x10x8 ins., 15 ins.in the ground
for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on N.face; raise a mound of
stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.Pits impracti-
cable. I find no trace of the old $\frac{1}{4}$ sec.cor.
- 44.90 Main trail leading to Eight Mile at SE.foot of ridge
bears SW. and NE.Leave cedars;enter dense sagebrush.
- 46.30 Trail bears SW. and NE.
- 47.12 Road from Eight Mile to Trough Springs bears SW. and
NE. Thence over rolling foothills.
- 54.60 Foot of ridge bears N. and S.
Ascend gradually over W.slope of volcanic ridge.
- 80.00 Set a trachyte stone 22x12x6 ins., 16 ins.in the ground
for cor.of secs.4,5,32, and 33, marked with 4 notches
on E. and 3 notches on W.edges; and raise a mound of
stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracti-
cable. I find no trace of old sec.cor.
Land mountainous.
Soil gravelly and stony: 2d and 3d rate.
Timber cedars. Undergrowth sagebrush.
Mountainous land covered with cedar timber or sage-
brush undergrowth on 80.00 chs.

Resurvey of South Boundary of T. 33 S., R. 18 W.

Chains. Oct.13: At 11 h.46m.a.m.l.m.t.I set off $7^{\circ} 43' S.$ on decl.arc; and observe the sun on the meridian; the resulting lat.is $37^{\circ} 53' 40'' N.$

N. $89^{\circ} 44' E.$ bet.secs.4 and 33,

Ascending over west slope of ridge; through scattering cedars and sagebrush.

16.00 Leave cedars.

21.00 Top of volcanic ridge bears NE. and SW. Descend.

40.00 Set a trachyte stone $15 \times 10 \times 9$.ins., 10 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

I found no trace of old $\frac{1}{4}$ sec.cor..

52.00 Enter dense sagebrush undergrowth, over gravelly soil and rolling foothills, at foot of ridge bearing N. and S.

57.50 Wash 40 lks.wide, 8 ft.deep, heads NW., drains SW.

66.37 Trail bears NW. and SE.

80.00 Set a trachyte stone $12 \times 8 \times 6$ ins., 8 ins.in the ground, for cor.of secs.3,4,33, and 34, marked with 3 notches on E.and W.edges; dig pits $18 \times 18 \times 12$ ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.I find no trace of old sec.cor.

Land mountainous.

Soil gravelly and rocky; 2d and 3d rate.

Timber scattering cedars. Undergrowth sagebrush.

Mountainous land or land covered with dense undergrowth on 80.00 chs.

Oct.13: At 2 h.46 m.p.m.l.m.t.I set off $37^{\circ} 53' 50'' N.$ on lat.arc; $7^{\circ} 45' 10'' S.$ on decl.arc; and determine a meridian with the solar at the cor.of secs.3,4,33, and 34.

Note: The notes furnished for this line by the surveyor general do not agree with country surveyed.

Resurvey of South Boundary of T. 33 S., R. 18 W.

Chaine.	N.89° 44' E. bet. secs. 3 and 34, Over rolling foothills; through dense sage undergrowth.
40.00	Set a granite stone 12x8x6 ins., 8 ins. in the ground, for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N.face; dig pits 18x18x12 ins. N. and W. of stone 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor. I found no trace of old $\frac{1}{4}$ sec.cor.
49.10	Trail bears NW. and SE.
80.00	Set a granite stone 15x10x5 ins., 10 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, marked with 2 notches on E. and 4 notches on W.edges; dig pits 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, .2 ft. high W. of cor. I found no trace of old sec.cor.
	Land rolling foothills. Soil gravelly 1st and 2nd rate. No timber. Undergrowth sagebrush. Rolling foothills covered with dense sagebrush under- growth on 80.00 chs.

October 13, 1901.

October 14, 1901.

N.89° 44' E. bet. secs. 2 and 35,

Over ground gently sloping S.E.; through scattering
sagebrush.

9.55 Road from State Line to Cedar City, bears NW. 5 chs.,
thence N.70° W. and SE.

9.60 Trail bears NW. and SE.

19.00 Leave scattering sagebrush for grass and desert weed
or white sage.

40.00 Set a granite stone 12x10x6 ins., 8 ins. in the ground,
for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18x18x

Resurvey of South Boundary of T. 33 S., R. 18 W.

Chains. x12 ins.E. and W.of stone 3 ft.dist., and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
I found no trace of old $\frac{1}{4}$ section.
80.00 The cor.of secs.1,2,35, and 36, reestablished by me and heretofore described.
Land,nearly level,adjoining foot hills.
Soil,clay loam and gravelly;1st.and 2nd.rate.
No timber.
Undergrowth sagebrush.

October 14, 1901.

For general description see notes of subdivision of this township.

Mayhew H. Dally

U.S.Deputy Surveyor.

CORRECTIVE

Resurvey of South Boundary of T.33 S., R.18 W.

Survey commenced July 31, 1912, and executed with a W.& L.E.Gurley Light Mountain solar transit, No.31, provided with R.M.Jones double latitude arc, and reversible level bubble.

The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds of arc, respectively.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m.and p.m.

BOOK A-374
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Corrective Resurvey of South Boundary Township 33 South, R.18 W.

Chains. hours with a true meridian determined by observations on Polaris I proceed as follows:

July 31, 1912: At the cor. of Tps. 33 and 34 S., Rs. 17 and 18 W., as re-established by me under this contract and heretofore described, lat. $37^{\circ} 53' 51''$ N.; longitude $113^{\circ} 45' 30''$ W., at 3 h 06m. p.m.l.m.t., I set off $37^{\circ} 54' N$ on lat.arc; $18^{\circ} 13' N$ on decl.arc; and determine with the solar a true meridian; and mark a point thereof on a wooden plug set firmly in the ground 5.00 chs.N. of the corner.

At 10h 55m p.m.l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined by a groove cut on a wooden plug driven in the ground 5.00 chs.N. of my station. . . . July 31, 1912.

Aug. 1: At 7h a.m.l.m.t., I lay off the azimuth of Polaris $1^{\circ} 28'$ to the west, and mark the true meridian thus determined by a tack driven in the wooden plug set July 30, on which the true meridian falls 0.35 ins.west of the mark determined by the solar. At 8h 06m a.m.l.m.t., I set off $37^{\circ} 54' N$ on the lat.arc; $18^{\circ} 02' N$ on the decl.arc; and mark a point in the true meridian determined with the solar by a cross cut on the plug already set 5.00 chs.N. of my station; this mark falls 0.25 ins.W. of the true meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for true meridians respectively about $0^{\circ} 18'' E.$ and $0^{\circ} 13'' W.$ of the true meridian established by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian is $N.16^{\circ} 40' W$.

Corrective Resurvey of South Boundary Township 33 South, R.18 W.

Chains.	which gives the mag.decl. $16^{\circ} 40' E.$
	From the Tp.cor.above described I run $S.89^{\circ} 44' W.$ bet.secs.1 and 36,
40.05	The $\frac{1}{4}$ sec.cor., which is a granite stone $12 \times 10 \times 6$ ins.above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line.
71.70	The closing cor.of secs.1 and 2, T.34 S., R.18 W., which is an iron post 2 ins.dia.,properly set and marked and witnessed as described by the Surveyor General.
80.00	The cor.of secs.1,2,35, and 36, which is a granite stone $12 \times 8' \times 4$ ins.above ground, firmly set and mkd. and witnessed as described in the original notes of the resurvey of this line. I destroy all marks on this cor.pertaining to Tp.34 S. No change in topography from that given in original notes.
	$S.89^{\circ} 44' W.$ bet.secs.2 and 35,
40.00	The $\frac{1}{4}$ sec.cor., which is a granite stone $10 \times 6 \times 4$ ins. above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line.
71.66	The closing cor.of secs.2 and 3, Tps.34 S., R.18 W., which is an iron post 2 ins.dia.properly set and marked and witnessed as described by the Surveyor General.
80.00	The cor.of secs.2,3,34, and 35, which is a granite stone $10 \times 5 \times 5$ ins.above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line. Note: The topography on this line agrees with the original notes of resurvey thereof. I destroy marks on sec.cor.pertaining to Tp.34 S. Aug.1, 1912.

Corrective Resurvey of South Boundary of T.33 S., R.18 W.

Chains	Aug.2, 1912: At 8h 6m.a.m.l.m.t., I set off $37^{\circ} 54'N.$ on the lat.arc; $17^{\circ} 47'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.34 and 35 on the S.bdy.of the Tp. Thence I run $S.89^{\circ} 45'W.$ on corrective resurvey line betsecs.3 and 34
40.00	The $\frac{1}{4}$ sec.cor., which is a trachyte stone $10 \times 9 \times 5$ ins. above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line.
71.55	The closing cor.of secs.3 and 4, T.34 S., R.18 W., which is an iron post properly set and marked and witnessed as described by the Surveyor General.
80.00	The cor.of secs.3,4,33, and 34, which is a trachyte stone $8 \times 6 \times 4$ ins.above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line. Note: I destroy all marks on this cor.pertaining to Tp.34 S.
	Note: The topography is the same as given in the original notes of the resurvey of this line.
	<hr/>
	$S.89^{\circ} 44'W.$ betsecs.4 and 33,
40.00	The $\frac{1}{4}$ sec.cor., which is a trachyte stone $10 \times 9 \times 5$ ins.above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of this line.
71.40	The closing cor.of secs.4 and 5 T.34 S., R.18 W., which is an iron post 2 ins.dia., properly set and marked and witnessed as described by the Surveyor General.
80.00	Set a trachyte stone $12 \times 12 \times 6$ ins., 16 ins.in the ground, for cor.of secs.32 and 33, on S.bdy.of Tp.

Corrective Resurvey of South Boundary of T.33 S., R.18 W.

Chains marked with 4 notches on the E.and 2 notches on the W.edges; from which

A cedar 12 ins.dia.bears N. $36\frac{1}{2}$ E.100 lks.dist.

mkd.T 33 S R 18 W S 33 B T

A cedar 6 ins.dia.bears N. $30\frac{1}{2}$ W. 63 lks.dist.

mkd.T 33 S R 18 W S 32 B T

Note: The topography on this line is practically the same as given in the original notes of the resurvey thereof. The corner originally set bears S. $89^{\circ} 44' W.$ 75 lks.dist. I destroy all traces of it.

S. $89^{\circ} 44' W.$ bet.sections 5 and 32,

40.00 Set a trachyte stone 20 x 10 x 8 ins., 15 ins.in the ground, for 1 sec.cor., marked $\frac{1}{2}$ on N.face; from which,

A cedar 4 ins.dia.bears N. $80^{\circ} E.$ 20 lks.dist.mkd.

$\frac{1}{2}$ S 32 B T

No other trees within limits; raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor.

Note: The $\frac{1}{2}$ sec.cor.set in the original resurvey of this line bears S. $89^{\circ} 44' W.$ 61 lks.dist. I destroy all traces of this cor.

Aug. 2, 1912: At this cor. I set off $17^{\circ} 44' N.$ on the decl. arc; and at 9 h 6m p.m.l.m.t., I observe the sun on the meridian; the resulting lat.is $37^{\circ} 54' N.$, which is the proper lat.nearly.

71.50 The closing cor.of secs.5 and 6 T.34 S., R.18 W., which is on iron post 2 ins.dia., properly set and marked and witnessed as described by the surveyor general.

80.00 Set a trachyte stone 16 x 10 x 6 ins., 11 ins.in the ground, for cor.of sections 31 and 32, marked with 5 notches on E.and 1 notch on W.edges; from which

A cedar 4 ins.dia.bears N. $48^{\circ} 45' E.$ 79 lks.dist.

mkd.T 33 S R 18 W S 32 B T

A cedar 5 ins.dia.bears N. $15^{\circ} 15' W.$ 126 lks.dist.

Corrective Resurvey of South Boundary of T.33 S., R.18 W.

Chains	mkd.T 33 S R 18 W S 31 B T Note: The cor.set in the original resurvey of this bdy. bears S.89° 44'W. 50 lks.dist. I destroy all traces of this cor. Note: The topography of this line practically agrees with that given in the original notes of the resurvey thereof.
40.00	S.89° 44'W.bet.secs.6 and 31, Set a granite stone 20 x 10 x 8 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which A cedar 8 ins.dia.bears N.63° E.13 lks.dist., mkd. $\frac{1}{4}$ S 31 B T A cedar 8 ins.dia.bears N.64°W. 34 lks.dist., mkd. $\frac{1}{4}$ S 31 B T Note: The $\frac{1}{4}$ sec.cor.set in the original resurvey of this bdy.bears S.89° 44'W.50 lks.dist., I destroy all traces of this cor.
79.80	The cor.of Tps.33 and 34 S., Rs.18 and 19 w., which is a trachyte stone 12 x 10 x 5 ins., above ground, firmly set and marked and witnessed as described in the original notes of the resurvey of S.bdy.of T.33 S., R. 18 W. Note: There is no change in topography from that given in the original notes of the resurvey of this line.

Aug.2, 1912.

GENERAL DESCRIPTION.

For general description see notes of the subdivision of this township.

Mayhew H. Balley
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley.....
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of ^{Re-} South Boundary
of Tp. 33 S. of R. 18 W., of the Salt Lake Base and Meridian, State of Utah.
showing the respective capacities in which they acted:

..... William Macfarlane....., *Chainman.*
..... William Dix....., *Chainman.*
..... Edward H. Parry....., *Moundman.*
..... Hillman Dalley....., *Moundman.*
..... Edward H. Parry....., *Axman.*
....., *Axman.*
..... Hillman Dalley....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley.....
....., United States Deputy Surveyor, in surveying all
those parts or portions of the South Boundary of Tp. 33 S. of R. 18 W......

..... of the Salt Lake
base and meridian, State of Utah....., which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
as been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
general for Utah.....

..... William Macfarlane, chainman.
..... William Dix, chainman.
..... Edward H. Parry, Moundman.
..... Hillman Dalley, Moundman.
..... Edward H. Parry, Axman.
....., Axman.
..... Hillman Dalley, Flagman.

Subscribed and sworn to before me this 20th.....
day of August....., 1906,....., 189



Apr. 5 1907

Leona H. Dalley
Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 11th day of April, 1901, 189¹, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the South Boundary of Tp. 33 S. of R. 18 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been ^{re}surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said ^{re}survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{re}survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley

United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me
this 22nd day of August, 1906.


SEAL


Wm G. Carroll
County Clerk, Iron County, Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 8, 1907., 189

The foregoing field notes of the ^{re}survey of the South Boundary of Township No. 33 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, 189¹, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas E. Bell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley,

, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of S. bdy. of
33 S. of R. 18 W. of the Salt Lake Base and Meridian,
owing the respective capacities in which they acted:

Billman Dalley, Chairman.
Waisser Dalley, Chairman.
Waisser Dalley, Moundman.
Billman Dalley, Moundman.
Waisser Dalley, Axman.
Rulon Dalley, Axman.
Rulon Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley,

Corrective re-

, United States Deputy Surveyor, in surveying all
those parts or portions of the S. bdy. of T. 33 S., of R. 18 W. of

of the Salt
Lake Base and meridian, State of Utah, which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

Billman Dalley, Chairman.

Waisser Dalley, Chairman.

Waisser Dalley, Moundman.

Billman Dalley, Moundman.

Waisser Dalley, Axman.

Rulon Dalley, Axman.

Rulon Dalley, Flagman.

scribed and sworn to before me this 31st.
day of August, 1912.



My Commission Expires
May 28th, A. D. 1913.

Mayhew H. Dalley

Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of S. bdy. of T. 33 S., R. 18 W. of

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me
this 10th day of September, 1912.

Chas. A. Adams
Clerk of District Court.

Fifth Judicial District
State of Utah.
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of the ^{re} survey of and corrective resurvey of the South Boundary of Township No. 33 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley,
under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-374

FIELD NOTES

OF THE SURVEY OF THE

WEST AND NORTH BOUNDARIES

O F

TOWNSHIP NO. 33 SOUTH

RANGE NO. 18 WEST

Of the SALT LAKE BASE AND Meridian,

U T A H,

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 341, dated April 11, 1901

Survey commenced October 14, 1901.

Survey completed August 6, 1912.

6-161

6-00-55

5-78-23

7-13-78

BOOK A-374

NAMES AND DUTIES OF ASSISTANTS.

1901:

William Macfarlane Chairman.

William Dix, Chairman.

Edward H. Parry, Mountain.

Hillman Dalley, Mountain.

Edward H. Parry, Axmen.

Hillman Dalley, Flagmen.

1912:

Hillman Dalley, Chairman.

Maeser Dalley, Chairman.

Maeser Dalley, Mountain.

Hillman Dalley, Mountain.

Maeser Dalley, Axmen.

Rulon Dalley, Axmen.

Rulon Dalley, Flagmen.

BOOK A-374

INDEX DIAGRAM.

Township 14³³ South, Range 18 West
16 14 13 12 18 10 9

7	6	5	4	3	2	1
6	7	8	9	10	11	12
4	18	17	16	15	14	13
3	19	20	21	22	23	24
2	20	20	28	27	26	25
1	31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, William Macfarlane and William Dix
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the West and North Boundaries of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

William Macfarlane, Chainman.
William Dix, Chainman.

Subscribed and sworn to before me this 7th.
day of October, 1901., 189



My Commission Expires
Mar. 20th, 1903

Notary Public, Iron County, Utah.

We, Edward H. Parry and Hillman Dalley
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the West and North Boundaries of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Edward H. Parry, Moundman.
Hillman Dalley, Moundman.

Subscribed and sworn to before me this 7th.
day of October, 1901., 189



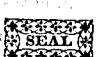
My Commission Expires
Mar. 20th, 1903

Notary Public, Iron County, Utah.

We, Edward H. Parry and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the West and North Boundaries of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Edward H. Parry, Axman.
Axman.

Subscribed and sworn to before me this 7th.
day of October, 1901., 189



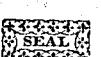
My Commission Expires
Mar. 20th, 1903

Notary Public, Iron County, Utah.

I, Hillman Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the West and North Boundaries of Tp. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah.

Hillman Dalley, Flagman.

Subscribed and sworn to before me this 7th.
day of October, 1901., 189



My Commission Expires
Mar. 20th, 1903.

Notary Public, Iron County, Utah.

BOOK A-374

INDEX DIAGRAM.

Township No. 33 South, Range No. 18 W., S.L.Mer.

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3	7	8	9	10	11	12
2	18	17	16	15	14	13
2	19	20	21	22	23	24
1	30	29	28	27	26	25
1	31	32	33	34	35	36

Meanders Page

6-161

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of W. and N. Bds. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian,

Utah.

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley
Notary Public, Iron County, Utah.

WE, Maeser Dalley

and Hillman Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of W. and N. Bds. of T. 33 S., R. 18 W., of the Salt Lake Base and Meridian,

Utah.

Maeser Dalley, Moundman.
Hillman Dalley, Moundman.

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley
Notary Public, Iron County, Utah.

WE, Maeser Dalley

and Rulon Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of W. and N. Bds. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian,

Utah.

Maeser Dalley, Axman.
Rulon Dalley, Axman.

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley
Notary Public, Iron County, Utah.

I, Rulon Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of W. and N. Bds. of T. 33 S. of R. 18 W., of the Salt Lake Base and Meridian,

Utah.

Rulon Dalley Flagman.

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913.

Matthew H. Dalley
Notary Public, Iron County, Utah.

West Boundary of T. 33 S., R. 18 W.

- Chains. Survey commenced October 14, 1901 and executed with the instrument described in book "A" of this survey. I know the instrument to be in adjustment from recent observations made Oct. 9 and 10, 1901 and recorded in book "A" of this survey.
- I begin at the reestablished cor. of Tps. 33 and 34 S., Rs. 18 and 19 W. heretofore described.
- Oct. 14: At 1 h. 46 m. p.m. l.m.t. I set off $37^{\circ} 53' 50''$ N. on lat. arc, $8^{\circ} 07' S.$ on decl. arc and determine a true meridian with the solar.
- Thence I run
 North bet. secs. 31 and 36,
 Descending over broken NW. slope of ridge; through medium dense nut pine and cedar timber.
- 33.00 Road from State Line to Eight Mile and Cedar City, at foot of descent, bears W. and NE.
- 34.00 Ascend southerly slope of ridge bears NE. and SW.
- 40.00 Set a trachyte stone 16x8x6 ins., 11 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
- 43.00 Top of ridge bears SE. and NW.
- 44.00 Descend over northern slope of ridge.
- 53.50 Foot of ridge in hollow, bears SE. and NW.
 Ascend over southerly and westerly slope of ridge.
- 69.50 Top of spur projects SW. bears S. 25° E. W.
 Descend over northerly slope, through dense timber.
- 80.00 Set a trachyte stone 16x10x8 ins., 11 ins. in the ground for cor. of secs. 25, 30, 31, and 36, marked with 1 notch on S. and 5 notches on N. edges; from which
 A nut pine 10 ins. diam. bears N. 55° W. 40 lks. dist.
 marked T 33 S R 19 W S 25 B T
 A nut pine 8 ins. diam. bears S. 20° E. 31 lks. dist.
 marked T 33 S R 18 W S 31 B T
 No other bearing trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impractical

West Boundary of T. 33 S., R. 18 W.

Chains. ble.

Land mountainous.

Soil clay, gravelly, and rocky 2nd and 3d rate.

Timber nut pine and cedars.

Undergrowth sagebrush.

Mountainous land, heavily timbered and covered with dense undergrowth 80.00 chs.

October 14: At 3h.46m.p.m.l.m.t. I set off $37^{\circ} 54' 45''$ N. on the lat.arc; $8^{\circ} 08' 15''$ S. on decl.arc; and determine a true meridian with the solar at the cor.of secs. 25,30,31, and 36.

Thence I run

North betsecs.25 and 30,

Descending through dense cedar and pine timber.

1.00 Foot of ridge bears NW. and SE.

Hollow drains SE. Ascend.

26.50 Top of ridge bears NE. and SW..

Descend through medium dense cedar and pine timber, over NW. slope!

32.00 Foot of ridge bears NE. and SW.

Ravine drains SW., heads NE. about 20.00 chs.

Ascend over SE.slope.

40.00 Set a trachyte stone 16x10x6 ins., 11 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.

73.00 Top of ridge bears E. and W.

Descend over NW. slope.

80.00 Set a trachyte stone 22x10x8 ins., 16 ins.in the ground for cor.of secs.19,24,25, and 30, marked with 2 notches on S. and 4 notches on N.edge; from which A nut pine 8 ins.diam.bears S. 75° E. 8 lks.dist.

West Boundary of T. 33 S., R. 18 W.

Chains	marked T 33 S R 18 W. S. 30 B. T. dist. A nut, pine 8 ins. diam. bears N. 70° 45' W. 7 lks.
	dist. marked T 33 S R 19 W. S. 24 B. T.
	No other suitable bearing trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Land, mountainous. S. 18 E. 20 chs. Soil, clay loam, gravelly and stony, 2d and 3d rate.
	Timber, cedar and pine.
	Mountainous land on 80.00 chs.

October 15, 1901: At 8h 46m a.m.l.m.t., I set off $37^{\circ} 55' 30''$ N. on lat.arc; $8^{\circ} 24'$ S. on decl.arc; and determine a true meridian with the solar at the cor. of secs. 19, 24, 25 and 30. Thence I run

North bet. secs. 19 and 24,

Descending over west and NW. slopes.

- 23.00 Foot of ridge, bearing S. 80° E. and N. 80° W.
Hollow drains S. 80° E. about 20 chs.; thence northeasterly.
Ascend over southerly slope.
- 40.00 Set a granite stone 18 x 12 x 5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
- 49.00 Top of ridge, bears E. and W. Ascend over NW. slope.
Descend.
- 56.10 Hollow, at foot of ridge, heads N. 60° W. about 15 chs., drains S. 70° E. about 30 chs. to where it joins main hollow; thence SE.
Ascend.
- 63.50 Top of spur from main ridge, bears NW. and SE.
Descend over southeasterly slope.

West Boundary of T.33 S., R.18 W.

Chains. 80.00	Set a granite stone 24 x 14 x 8 ins., 18 ins. in the ground, for cor.of secs.13,18,19, and 24, marked with 3 notches on N.and 3 notches on S.edges; from which A cedar 10 ins.diam.bears S.3° 30'E.45 lks.dist. marked T 33 S R 18 W S 19 B T A cedar 10 ins.diam.bears S.17°W. 46½ lks.dist. marked T 33 S R 19 W S 24 B T A cedar 18 ins.diam.bears N.89°30'W.87 lks.dist. marked T 33 S R 19 W S 13 B T A nut pine.10 ins.diam.bears N.21°45'E.92 lks. dist., marked T 33 S R 18 W S 18 B T Land, mountainous.. Soil, gravelly and stony; 2d and 3d rate. Timber, nut pine and cedars. Mountainous land on 80.00 chs. Oct.15: At this cor.I set off 8° 27' 30" S.on decl.arc; and at 11h 46m a.m.l.m.t., I observe the sun on the meridian; the resulting lat.is 37° 56' 27"N.
	October 15, 1901.
Aug.3, 1912:	At 8h 06m a.m.l.m.t., I set off 37° 56'N.on the lat.arc; 17- 31'N.on the decl.arc, and determine a meridian with the solar.at the cor.of secs.13,18, 19.and 24, above.described.
	Survey made with the instrument.described in book "B" of this survey. For complete test of instrument see book "B".
From said sec.cor.I run	North.betsecs.13 and 18,
	Ascending over E.slope; through cedar and pine timber.
22.00	Top of ascent, over east slope.
	Descend over west slope.
33.00	Foot of descent, bears N.30°E.and S.30°W.

West Boundary of T.33 S., R.18 W.

	Chains.	Hollow drains S.30°W.
		Ascend over SW.slope of ridge.
39.00		Top of ascent.bears NE. and SW.
		Descend over NW.slope of ridge.
40.00		Set a granite stone 14 x 8 x 6 ins., 9 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A pinon pine, 8 ins.dia.bears N.26°E.48 lks.dist. mkd. $\frac{1}{4}$ S 18 B T
		A pinon pine, 10 ins.dia., bears N.28°W.27 lks. dist., mkd. $\frac{1}{4}$ S 13 B T
		Descend.
43.50		Head of hollow, drains SW.
		Ascend.
47.50		Top of ridge bears NW. and SE.
		Descend over NW.slope.
51.25		Ravine at foot of descent heads SE.about 10 chs., and drains NW. about 20 chs.; thence SW.
74.50		Hollow heads E.about 20 chs.; drains west about 10 chs. to main hollow or ravine; thence SW.
		Ascend.
76.50		Top of spur, bears S.70°W. and N.70°E. Thence over northerly slope; descending.
79.65		The closing cor.for secs.12 and 13 in R.19 W., which is an iron post 2 ins.dia., properly set and mkd.and wit- nessed as described by the Surveyor General.
80.00		Set a granite stone 18 x 10 x 6 ins., 12 ins.in the ground, for corner of secs.7 and 18; mkd.with 4 notches on S.and 2 notches on N.edges; from which A pinon pine, 10 ins.dia.bears N.61° 15'E.54 lks. dist., mkd.T 33 S R 18 W S 7 B T
		A pinon pine, 10 ins.dia.bears S.18° 15'E. 24 lks. dist., mkd.T 33 S R 18 W S 18 B T
		Land, mountainous. Soil, gravelly and stony; 2d and 3d rate.

West Boundary of T. 33 S., R. 18 W.

Chains.	Timber, nut pine and cedar. Mountainous land, heavily timbered on 80.00 chs.
	North betsecs.7 and 12, Descending over stony ground; through cedar and pine.
2.75	Foot of ridge, bears N.70°E. and SW. Hollow heads about 45 chs.NE.; and drains SE.; branch heads N.70°E. about 35 chs.
	Ascend.
14.50	Top of ascent on SE.slope.
	Ascend over SW.slope of ridge.
25.75	Top of ridge, bears S.30°W. and N.30°E.
	Asc.SW.slope of ridge.
34.00	Foot of descent.
	Ravine heads NE.about 10 chs.; drains SW.
	Ascend over SW.slope of ridge.
40.00	Set a granite stone 17 x 10 x 6 ins., 11 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on W.face;from which A pinon pine 5 ins.dia.bears N.83°E.35 lks.dist. mkd. $\frac{1}{4}$ S 7 B T
	A pinon pine, 12 ins.dia.bears S.68°15'W.16 lks. mks. $\frac{1}{4}$ S 12 B T
65.55	Top of ridge, bears NW. and SE.
	Descend over NE.slope.
70.00	Enter dense sage and scattering cedars at foot of ridge on NE.slope, bears NW. and SE.
	Descend over rolling foothills.
79.55	The closing cor.of secs.1 and 12 R.19 W., which is an iron post 2 ins.dia., properly set and mkd.and wit- nessed as described by the surveyor general.
80.00	Set a granite stone 18 x 10 x 6 ins., 12 ins.in the ground, for cor.of secs.6 and 7, mkd.with 5 notches

- 7 -

West Boundary of T.33 S., R.18 W.

Chains.. on S. and 1 notch on N.edges; from which
 A cedar 6 ins.dia.bears N. $20^{\circ} 45' E.$ 26 lks.dist.
 mkd.T 33 S R 18 W S 6 B T
 A cedar 7 ins.dia.bears S. $29^{\circ} 30' E.$ 21 lks.dist.
 mkd.T 33 S R 18 W S 7 B T

Land, mountainous.
 Soil, gravelly and stony; 2d and 3d rate.
 Timber, nut pine and cedar.
 Undergrowth, dense sagebrush.
 Mountainous land 80.00 chs.

Aug.3, 1912.

Aug.5, 1912: At 8h 6m a.m.l.m.t., I set off $37^{\circ} 58' N.$

on lat.arc; $17^{\circ} 00' N.$ on decl.arc; and determine a
 meridian with the solar at the cor.of secs.6 and 7.

Thence I run

North betsecs.1 and 6,

Descending over rolling foothills; through dense sage
 and heavy cedar timber.

40.00 Set a granite stone 14 x 12 x 4 ins., 9 ins.in the
 ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; from which
 A pinon pine, 10 ins.dia., bears N. $6^{\circ} E.$ 20 lks.
 dist., mkd. $\frac{1}{4}$ S 6 B T

A cedar 10 ins.dia.bears S. $45^{\circ} W.$ 3 lks.dist.

mkd. $\frac{1}{4}$ S 1 B T

68.00 Hollow, 400 lks.wide, about 50 ft.deep, heads S. $25^{\circ} E.$ and
 drains N. $25^{\circ} W.$, at foot of ridge on S.side of Hamblin
 Valley.

Descend more gradually over northerly slope adjoining
 foothills.

80.55 The cor.of Tps.32 and 33 S., Rs.18 and 19 W., which is
 an iron post 3 ins.dia., properly set and mkd.and

West Boundary of T.33 S., R.18 W.

Chains.	witnessed as described by the Surveyor General, established under Assignment No. 3. Land, rolling foothills. Soil, gravelly and stony; 2d and 3d rate. Timber, cedar. Undergrowth, sagebrush. Mountainous land, or land heavily timbered, or covered with dense undergrowth 80.55 chs.
	Aug. 5, 1912: At this cor. I set off $16^{\circ} 56' N.$ on the decl. arc; and at 0 h 6m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 59' N.$, which is the proper lat. nearly.

August 5, 1912.

For general Description see notes of the subdivision of this township.

North Boundary of Township 35 S., R. 18 W.

Chains Survey commenced Oct. 16, 1901, and executed with the instrument described in book "A" of this survey.

At the temporary cor. of Tps. 32 and 33 S., Rs. 18 and 19 W., set by me in the survey of the west boundary of this township,

At 9h. 16 m. a.m.l.m.t., I set off $37^{\circ} 59' N.$ on the lat. arc, $8^{\circ} 47' S.$ on the decl. arc, and determine a true meridian with the solar.

Thence I run

East on a random line along the north boundary of the Tp., setting temporary $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at 477.50 chs. intersect the 3d Auxiliary Guide Meridian 24 lks. N. of the cor. of Tps. 32 and 33 S., Rs. 17 and 18 W., heretofore described.

Oct. 16, 1901

Oct. 17, 1901: At the noon hour the sky overcast, observation for lat impossible.

At 1 h. 48 m. p.m.l.m.t. I set off $37^{\circ} 59' N.$ on the lat. arc, $9^{\circ} 13' S.$ on the decl. arc, and determine the true meridian with the solar at the cor. of Tps. 32 and 33 S., Rs. 17 and 18 W., heretofore described.

Thence I run

West on a true line bet. secs. 1 and 36,
Descending over high ridges, through heavy cedar and nut pine timber.

35.250 A hollow about 100 ft. deep, heads NE. about 5.00 chs.; drains about 40 chs. S.W., thence SE.

Ascend along S. slope of ridge.

40.00 Set a granite stone 18x12x8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

North Boundary of T. 33 S., R. 18 W.

Chains. Pits impracticable.

- 53.00 Top of ascent on W.side of hollow, bears N.E. & S.W.
Ascend more gradually along South slope of lava ridge.
- 55.00 Enter lava bed, bears NE. and S.W.
- 80.00 Set a lava cinder stone 16x10x6 ins., 11 ins.in a
mound of stone for cor.of secs.1,2,35, and 36, marked
with 1 notch on E. and 5 notches on W.edge; from
which

A nut pine 10 ins.diam.bears S.40°E. 68 lks. dist.
marked T 33 S R 18 W S 1 B T

A nut pine 8 ins.diam.bears S. 29°W. 73 lks.dist.
marked T 33 S R 18 W S 2 B T

A nut pine 18 ins.diam.bears N.52° 30'W.93 lks.
dist., marked T 32 S R 18 W S 35 B T

A nut pine 30 ins.diam.bears N.22° 30'E. 185 lks.
dist., marked T 32 S R 18 W S 36 B T

Land mountainous.

Soil gravelly and stony, 2d and 3d rate.

Timber cedar and nut pine.

Mountainous land with heavy nut pine and cedar timber
on 80.00 chs.

West betsecs.2 and 35,

Ascending over southerly slope of high ridge.

- 1.00 Leave lava bed, bears N. & S.
- 5.30 Top of ridge on S.W.slope bears S. and NW.
- Descent.
- 20.50 A hollow, 4.00 chs.wide, 50 ft.deep, heads N.20°E.
about 15. 00 chs.;drains S.about 20 chs., thence SE.
37. 00 A ravine heads W.about 10.00 chs., drains S.25°E.
- Ascend.
- 40.00 Set in granite stone 20x12x8 ins., 15 ins.in the ground,
for sec.cor. , marked $\frac{1}{4}$ on N.face, and raise a mound

NORTH BOUNDARY OF T.33 S., R.18 W.

Chains.	of stone 2 ft. base, 1½ ft. high N.of cor. Pits impracticable.
	Aug.5, 1912: At 2h 6m p.m.l.m.t., I set off $37^{\circ} 59'N.$ on the lat.arc; $16^{\circ} 55'N.$ on the decl.arc; and determine a meridian with the solar at this \pm sec.cor.
44.00	Top of spur, projects SE.
	Descend.
47.50	A ravine 5.00 chs.wide, 100 ft.deep, heads NW., about 15.00 chs., and drains SE.
	Ascend.
54.00	Top of spur, projects SE.
	Descend over SE.slope.
61.00	Ravine 10.00 chs.wide, 100 ft.deep, heads NW. about 20 chs., drains SE.
	Ascend over NE.slope.
75.50	Top of ridge bears $S.80^{\circ}E.$ and $N.80^{\circ}W.$
	Descend.
80.00	Set a granite stone 18 x 8 x 6 ins., 12 ins.in the ground, for cor.of secs.2,3,34, and 35, marked with 2 notches on the E.and 4 notches on W.edge; and raise a mound of stone 2 ft. base, 1½ ft. high W.of cor.
	A pinon pine 12 ins.dia.bears $N.23^{\circ}W.$ 21 lks. dist., marked T.32 S.R.18.W.S.34 B.T.
	A pinon pine 10 ins.diam.bears $S.31^{\circ}E.$ 91 lks. dist., marked T.33 S.R.18.W.S.2 B.T.
	A pinon pine 6 ins.dia.bears $S.51\frac{1}{4}^{\circ}W.$ 76 lks.dist. marked T.33 S.R.18.W.S.3 B.T.
	A cedar 5 ins.diam.bears $N.56^{\circ} 15'E.$ 108 lks.dist. marked T.32 S.R.18.W.S.35 B.T.
	Land, mountainous.
	Soil, gravelly and stony; 3d and 4th rate.
	Timber pinon pine and cedar.
	Mountainous land on 80.00 chs.
	Aug.5, 1912.

NORTH BOUNDARY T. 33 S., R. 18 W.

- Chains. Last Sat. sec. 3 and 4, Aug. 6, 1912: At 8h 6m a.m. l.m.t., I set off $37^{\circ} 59' N.$ on the lat.arc; $16^{\circ} 43' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs. 2, 3, 34, and 35. $37^{\circ} 59' N.$ 100.00 chs. 100.00 chs. Thence I run
- West bet.secs.3 and 34, 100.00 chs. 100.00 chs.
- Ascending through scattering cedar and nut pine timber and dense sagebrush undergrowth. 100.0 chs. 100.0 chs.
- 3.00 Ravine drains SE. 100.0 chs. 100.0 chs.
- 13.00 Top of ridge bears SW. and NE. 100.0 chs.
- Descend over SW.slope. 100.0 chs. 100.0 chs.
- 18.50 Enter lava bed bears NE. and SW. 100.0 chs. 100.0 chs.
- 27.50 A hollow head N.5.00 chs., drains SW. 100.0 chs. 100.0 chs.
- Ascend SE.slope. 100.0 chs. 100.0 chs.
- 29.00 Leave lava bed bears N. & S. 100.0 chs. 100.0 chs.
- 35.00 Top of ridge, bears NE. and SW. 100.0 chs. 100.0 chs.
- 40.00 Set a granite stone 24 x 16 x 8 ins., 18" ins. in a mound of stones for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which
- A pinon pine, 5 ins.dia., bears $S.85^{\circ} 15'E.$ 47 lks.dist., mkd. $\frac{1}{4} S 3 B T$ 100.0 chs.
19. . A pinon pine, 8 ins.dia.bears $N.30^{\circ} 45'W.$ 55 lks. dist., mkd. $\frac{1}{4} S 34 B T$ 100.0 chs.
- Descend. 100.0 chs. 100.0 chs.
- 66.47 Hollow 2.00 chs.wide, at foot of knoll, bears $N.10^{\circ}W.$ about 20.00 chs.; drains $S.10^{\circ}E.$ about 15.00 chs.; thence SW. Ascend.
- 74.17 Top of spur which projects $S.10^{\circ}E.$ Descend.
- 78.50 Ravine heads $N.10^{\circ}W.$ 3.00 chs., drains $S.10^{\circ}E.$ 4.00 chs. thence SE.
- Ascend.
- 80.00 Set a trachyte stone 16 x 12 x 10 ins., 11 ins.in the ground, for cor.of secs.3, 4, 33, and 34, marked with 3 notches on the E.and W.edges; from which end of
- A pinon pine 8 ins.diam.bears $N.21^{\circ}30'E.$ 57 lks.

NORTH BOUNDARY T.33 S., R.18 W.

Chains.

dist., marked T.32 S., R.18 W.S.34 B T

A cedar 10 ins.dia.bears S.80°E.30 lks.dist.

marked T 33 S R 18 W S 3 B T

A pinon pine, 12 ins.dia., bears S.24°15'W.115

lks.dist.,marked T 33 S R 18 W S 4 B T

A cedar 10 ins.dia.bears N.68°15'W.20 lks.dist.

marked T 32 S R 18 W S 33 B T

Land, mountainous.

Soil, gravelly and stony; 2d and 3d rate.

Timber, nut pine and cedar.

Undergrowth, sagebrush.

Mountainous land 80.00 chs.

West betsecs.4 and 33,

Ascending through scattering cedars and sagebrush undergrowth.

2.00 Top of spur, bears NW. and SE. Descend over SW.slope.

12.35 Ravine heads N.50°W.about 15.00 chs., drains S.about 5.00 chs., thence S.80°E.

Ascend.

21.00 Top of spur, projects SE.

Descend.

33.00 Ravine heads NW.about 7.00 chs., and NE.about 20.00 chs.
drains southeasterly.

Ascend NE.slope.

40.00 Set a granite stone 14 x 10 x 8 ins., 9 ins.in mound of
stone for $\frac{1}{2}$ sec.cor., mkd. $\frac{1}{2}$ on N.face; and raise a
mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

47.00 Top of ridge, bears SE. and NW.

Descend over SW.slope.

54.00 Foot of descent of high ridge bears SE. and NW.

Ascend.

57.00 E.foot of ledges, 50 ft.high, bears NE. and SW.

58.27 Top of ledges on divide.

NORTH BOUNDARY OF T.33 S., R.18 W.

- Chains. Bennion Spring with cabin and corral, bears N.4° 12'E.. about 80.00 chs.
- The town of State Line on west side of Hamblin Valley bears N.75°12'W.
- Government Peak bears N.85°12'W.
- Descend along N.edge of ledges.
- 60;79 Foot of ledges bear E.and SW.
- Descend over NW.slope into Hamblin Valley.
- 72.60 Trail bears NE. and SW.
- 79.50 Ravine heads SW.about 30.00 chs., drains NE.
- 80.00 Set a granite stone 16 x 10 x 6 ins., 11 ins.in the ground for cor.of secs.4,5,32, and 33, marked with 4 notches on E.and 2 notches on W.edges; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high w.of cor. Pits impracticable.
- Land, mountainous.
- Soil, gravelly and stony; 2d and 3d rate.
- Timber, nut pine, cedars and scattering yellow pine.
- Undergrowth, sagebrush.
- Mountainous and heavily timbered land on 80.00 chs.
- August 6, 1912: At this cor.I set off 16° 40'N.on the decl.arc; and at 0 h 6m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 59'N., which is the proper lat.nearly.
- West beatsecs.5 and 32,
- Over N.Slope of high ridge; through sage undergrowth; descending.
- 8.00 Top of hill bears SW.
- 15.50 Ravine heads SW.about 5.00 chs. and drains NE.
- Ascend.
- 27.00 Top of ridge on N.slope, bears N.30°E. Descend into ravine. Enter cedar and nut pine timber.
- 27.60 Trail bears NE. and SW.
- 33.60 Ravine heads SE., about 4.00 chs., and drains NW.

NORTH BOUNDARY T.33 S., R.18 W.

- Chains Ascend.
- 40.00 Set a granite stone 30 x 10 x 8 ins., 22 ins.in mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face.
A cedar 12 ins.dia.bears S.13°W.236 lks.dist.
marked $\frac{1}{4}$ S 5 B T
No other bearing tree within limit; raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor.. Pits impracticable.
- 42.00 Top of spur on NW.slope of high ridge, projects N.about 5.00 chs. From this point the town of State Line bears N.73° 37'W..
Government Peak bears N.82° 40'W.
- Descend.
- 55.10 Trail bears NE. and SW..
- 56.00 Foot of high ridge, S.side Hamlin Valley, bears NE.and SW. Head of ravine drains north.
Thence descend over rolling foothills.
- 79.70 Intersect closing cor.of secs.31 and 32, T.32 S., R.18 W., which is an iron post 2 ins.dia., 12 ins.above ground, firmly set and mkd.and witnessed as described in returns of surveys Group No.3, Collier and Gentry, Transitmen.
- 80.00 Set a granite stone 16 x 10 x 6 ins., 11 ins.in the ground for cor.of secs.5 and 6, mkd.with 5 notches on E.and 1 notch on W.edges; from which
A cedar 16 ins.dia.bears S.65°E.51 lks.dist.
marked T 33 S R 18 W S 5 B T
A cedar 8 ins.dia.bears S.45°W.91 lks.dist.
marked T 33 S R 18 W S 6 B T
- Land, mountainous.
Soil, stony and gravelly; 2d and 3d rate.
Timber, nut pine and cedars.
Undergrowth, sagebrush.
Mountainous land, heavily timbered 80.00 chs.

NORTH BOUNDARY T.33 S., R.18 W.

Chains.	West bet. secs. 6 and 31, Ascending over rolling foothills; through dense cedar. timber and sagebrush.
7.00	Top of spur from NW slope of knoll; projects N. about 3.00 chs. Descend.
27.90	Trail bears NE. and SW.
40.00	Set a granite stone 18 x 14 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; from which A cedar 30 ins. dia. bears S. 75° E. 7 lks. dist. mkd. $\frac{1}{4}$ S 6 B T A cedar 8 ins. dia. bears N. 18 lks. dist., mkd. $\frac{1}{4}$ S 31 B T
43.90	A wash 35 lks. wide, 10 ft. deep, drains N. 40° W. Descend more gradually..
78.23	The cor. of Tps. 32 and 33 S., Rs. 18 and 19 W., hereto- fore described, as set under Assignment No. 3. Land, rolling foothills and valley. Soil, gravelly, 2d and 3d rate. Timber, cedar. Undergrowth, sagebrush. Land, covered with dense undergrowth and cedar timber 78.23 chs.

August 6, 1912.

For general description see notes of subdivision
of this township.

BOUNDARIES OF T.33 S., R.18 W.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines	Designated	True Bearing	Dist. chs.	Latitudes,		Departures.	
				N. chs.	S. chs.	E. chs.	W. chs.
S.bdy.	T.33 S.R.18 W.	S. $89^{\circ}44'W.$	479.80	2.23	479.80	
W.bdy.	T.33 S.R.18 W.	North	480.10	480.10
N.bdy.	T.33 S.R.18 W.	East	478.23	478.23		
3d Aux.Guide Mer.		S. $0^{\circ} 10'E.$	478.90	478.90	1.39		
Convergency						0.56	
T o t a l s			480.10	481.18	480.18	479.80	
				480.10	479.80		
Error in lat.and dep.				1.03	.38		

Mayhew H. Dally

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of ...the West...and
North Boundaries of Tp. 33. S. of R. 18. W.of the Salt Lake Base and Meri-
an, State of Utah
owing the respective capacities in which they acted:

William Macfarlane Chainman.

William Dix Chainman.

Edward H. Parry Moundman.

Hillman Dalley Moundman.

Edward H. Parry Axman.

....., Axman.

Hillman Dalley Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley
....., United States Deputy Surveyor, in surveying all
those parts or portions of the ...West...and...North Boundaries of Tp. 33. S. of R. 18. W.
.....
..... of the ...Salt Lake
Base and meridian, State of Utah , which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for ...Utah.

William Macfarlane, chainman.

William Dix, Chainman.

Edward H. Parry, Moundman.

Hillman Dalley, Moundman.

Edward H. Parry, Axman.

....., Axman.

Hillman Dalley, Flagman.

Subscribed and sworn to before me this 20th.
day of August, 1906.



My Commission Expires

Apr. 5th. 1907.

Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 11th day of April, 1901, 1891, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the West and North Boundaries of Tp. 33 S. of R. 18 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 22nd day of August, 1906, 1891 }

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ccccc

Wm G. Marill
County Clerk, Iron County, Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, July 8, 1907, 1891

The foregoing field notes of the survey of the West and North Boundaries of Township No. 33 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley, under his contract No. 341, dated April 11, 1901, 1891, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas C. Reed
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of W. and N. Bds. of T. 33 S. of R. 18 W. of the Salt Lake Base and Meridian, Utah, owing the respective capacities in which they acted:

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.
Maeser Dalley, Moundman.
Hillman Dalley, Moundman.
Maeser Dalley, Axman.
Bulon Dalley, Axman.
Bulon Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all those parts or portions of the W. and N. Bds. of T. 33 S. of R. 18 W. of the SALT LAKE BASE AND MERIDIAN, STATE OF UTAH, which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for UTAH.

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.
Maeser Dalley, Moundman.
Hillman Dalley, Moundman.
Maeser Dalley, Axman.
Bulon Dalley, Axman.
Bulon Dalley, Flagman.

scribed and sworn to before me this 31st.
day of August, 1912.



My Commission Expires
May 28th, A. D. 1923

Matthew H. Dalley
Notary Public, Iron County, Utah

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of W. end N. Bds. of T. 33 S. of R. 18 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 10th day of September, 1912. }

cccccc
© SEAL ©
cccccc

Charles D. Adams
Clerk of District Court.

Fifth Judicial District,
U t a h.
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913

The foregoing field notes of the survey of the West and North Boundaries of Township No. 33 South, Range No. 18 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley,

under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

James Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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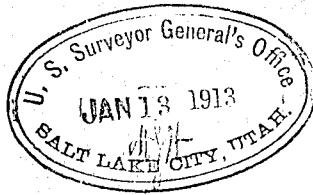
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BOOK A-374

D.



FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

of

TOWNSHIP NO. 33 SOUTH, RANGE NO. 18 WEST.

Of the SALT LAKE BASE AND Meridian,

in the STATE OF UTAH.

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

under his Contract No. 241, dated April 11th, 1901

Survey commenced August 6th, 1912

Survey completed August 20th, 1912

e-161

high 59-04-69
low 70-00

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley, Chainman,

Maeser Dalley, Chainman,

Maeser Dalley, Moundman,

Hillman Dalley, Moundman,

Maeser Dalley, Axman,

Rulon Dalley, Axman,

Rulon Dalley, Flagman.

82A

$$10 - 0.0 \checkmark$$

$$4\checkmark$$

$$2\checkmark$$

$$4\checkmark$$

$$79 - 7.6\checkmark$$

$$2\checkmark$$

$$79 - 1.8\checkmark$$

$$0.0 - 2\checkmark$$

$$79 - 9.8\checkmark$$

$$0.0 - 2\checkmark$$

$$79 - 5.0\checkmark$$

$$- 0.0 4\checkmark$$

$$2\checkmark$$

$$4\checkmark$$

$$79 - 8.2\checkmark$$

$$- 0.0 - 1.8\checkmark$$

$$- 2.6\checkmark$$

$$2.4\checkmark$$

$$2.0\checkmark$$

$$1.6\checkmark$$

$$1.7\checkmark$$

$$4.4\checkmark 9.0$$

$$8\checkmark 14.6$$

$$2\checkmark 13.9$$

$$1.0\checkmark$$

$$4\checkmark$$

$$7.9 - 4.8\checkmark$$

$$7.9 - 5.2\checkmark$$

$$7.9 - 1.6\checkmark$$

$$7.8 - 7.4\checkmark$$

$$7.8 - 3.8\checkmark$$

$$7.8 - 1.0\checkmark$$

$$0.947 - 6.9$$

$$13.9$$

INDEX DIAGRAM.

Township No. 33 South, Range No. 18 West, S.L.B&Mer.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley

and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
Subdivision of T.33 S.of R.18 W., of the Salt Lake Base and Meridian.

Hillman Dalley, Chainman
Maeser Dalley, Chainman

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913

WE, Maeser Dalley

and Hillman Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey
Subdivision of T.33 S., R.18 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Moundman
Hillman Dalley, Moundman

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913

WE, Maeser Dalley

and Rulon Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey
Subdivision of T.33 S.of R.18 W., of the Salt Lake Base and Meridian.

Maeser Dalley, Axman
Rulon Dalley, Axman

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913

I, Rulon Dalley

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision of T.33 S., R.18 W., of the Salt Lake Base and Meridian.

Rulon Dalley, Flagman

Subscribed and sworn to before me this 30th.
day of July, 1912.



My Commission Expires
May 28th, A. D. 1913

Matthew H. Dalley
Notary Public, Iron County, Utah.

SUBDIVISION OF T.33 S., R.18 W.

chains. Survey commenced Aug. 6, 1912, and executed with the instrument described in book "B". of this survey.

From recent test made at the corner of Tps. 33 and 34 S.
R.s. 17 & 18 W.p., I believe the instrument to be in adjustment; therefore I omit the test at this time.

Aug. 6: At 4h 6m p.m.l.m.t., I set off $37^{\circ} 54' N$.on the 1st.arc; $16^{\circ} 38' N$.on the decl.arc; and determine a meridian with the solar at the cor.of sections 35, and 36 on S.bdy.of Tp., heretofore described.

Thence I run
 $N.0^{\circ} 11' W$.bet.secs.35 and 36,

Over nearly level land; gently sloping SE.; through white sage undergrowth.

58.00 Enter scattering sagebrush, bears NE. and SW.
40.00 Set a granite stone $12 \times 10 \times 8$ ins., 8 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on W.face; and dig pits $18 \times 18 \times 12$ ins.N.and S.of stone 3 ft.dist.; and raise a mound of earth 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.

70.00 Enter dense sagebrush, bears NW. and SE.

60.00 Set a granite stone $14 \times 8 \times 6$ ins., 9 ins.in the ground for cor.of secs. 25, 26, 35, and 36, marked with 1 notch on S.and E.edges; dig pits $18 \times 18 \times 12$ ins.in each section $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft. base, $2\frac{1}{2}$ ft.high W.of cor.

Land, valley in Escalante Desert.

Soil, clay loam and gravelly; 1st. and 2d rate.

No timber.

Desert weed and sage undergrowth.

Dense sagebrush undergrowth 10,00 chs.

Aug. 6, 1912.

Aug. 7: At 8h 6m a.m.l.m.t., I set off $37^{\circ} 55' N$.on the 1st.arc; $16^{\circ} 26' N$.on the decl.arc; and determine a meridian with the solar at the cor.of secs. 25, 26, 35, and 36. Thence I run

Subdivision of T.33 S., R.18 W.

Chains.	At N.89°44' E.on random line bet.secs.25 & 36
40.00	. Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect 3d Auxiliary Guide Mer. 3 lks. N.of cor.of secs 25,30,31, and 36, heretofore described.
	Thence I run S.89°45'W.on a true line bet.secs.25 & 36
	Over clay loam soil; through dense sage undergrowth.
40.02	Set a trachyte stone 16 x 12 x 8 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits 18 x 18 x 12 ins.E.and W.of stone 3 ft.dist.; and raised a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high N.of cor.
51.18	Old road bears N.20°W. and S.20°E.
80.04	The cor.of secs.25,26,35, and 36. Land, nearly level; gently sloping SE. Soil, clay loam with little gravel; 1st and 2d rates. Good grazing. No timber.
	Dense sagebrush undergrowth on 80.04 chs.
	At N.0° 11'W.bet.secs.25 and 26,
40.00	Gradually ascending over clay and gravelly soil; through dense sage undergrowth.
40.00	Set an iron stone 14 x12 x 8 ins.; 10 ins.in the ground for $\frac{1}{4}$ sec.cor., mka. $\frac{1}{4}$ on W.face; dig pits 18 x 18 x 12 ins.N.and S.of stone 3 ft.dist.; and raised a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of corner.
80.00	Set a trachyte stone 16 x 10 x 6 ins., 11 ins.in the ground, for cor.of secs.23,24,25, and 26, marked with 2 notches on S.and 1 notch on E.edge; dig pits 18 x 18 x 12 ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raised a mound of earth 4 ft.base, 2 ft.high W.of cor.
	Land, valley; gently sloping SE.
	Soil, clay loam with some gravel; 2d rate.
	No timber.
	Dense sagebrush undergrowth 80.00 chs.

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Subdivision of T. 33 S., R. 18 W.

Chains.	N.89° 45' E. on a random line bet. secs. 24 and 25	00.00
0.00	Set temp. $\frac{1}{4}$ sec.cor.	
0.02	Intersect 3d Auxiliary Guide Mer. at the cor. of secs. 19, 24, 25, and 30, heretofore described. Thence I run S.89° 45' W. on a true line bet. secs. 24 & 25,	
	Over foothills sloping SE.; through dense sagebrush un- dergrowth.	
0.00	Trail bears SE. and NW.	
0.01	Set a trachyte stone 16 x 10 x 8 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Pits impracticable.	00.03 in Ketchum, Idaho
1.80	Trail bears SE. and NW.	
5.80	Ravine drains S.25°E.	
	Road to Trough Springs bears N. and S.	
1.50	A hollow, drains SE.	
0.02	The cor. of secs. 23, 24, 25, and 26.	
	Land, foothills, sloping gently SE.	
	Soil, clay and gravel.	
	No timber.	
	Dense sagebrush undergrowth 80.02 chs.	

	N.0° 11' W. bet. secs. 23 and 24	
	Ascending gradually over foothills sloping SE.; through dense sagebrush undergrowth.	
3.00	Hollow 6 chs. wide, 25 ft. deep, drains SE.	
2.00	Trail bears NW. and SE.	01.00
3.00	Wash 50 lks. wide, 4 ft. deep, drains SE.	00.00
	Road bears NW. and SE.	
0.00	Set a trachyte stone 18 x 12 x 10 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; and raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. Pits impracticable.	
6.50	Road from Cedar City to Trough Springs, bears S.30°E., and N.30°W.	

Subdivision of T.33 S., R.18 W.

Chains 56.80	Trail bears NW. and SE.
61.20	Road from Cedar City to Trough Springs; bears SE. and NW.
80.00	Set a trachyte stone 18 x 8 x 6 ins., 12 ins.in the ground, for cor.of secs.13,14,23, and 24, marked with 3 notches on the S.and 1 notch on the E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
	Land foot hills sloping SE.
	Soil, clay and gravelly; 2nd and 3d rate.
	No timber.
	Dense sage undergrowth on 80.00 chs.

Aug.7, 1912:At the cor.of secs.13,14,23; and 24 I set off $16^{\circ}23'N.$ on the decl.arc; and at $0^{\circ}h'6m$ p.m.l.m.t. observe the sun on the meridian; the resulting lat.is $37^{\circ}56'N.$

$N.89^{\circ}45'E.$ on a random line betsecs.13 and 24.

40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect 3d Auxiliary Guide Meridian 2 lks.N.of the cor. of secs.13,18,19 and 24 heretofore described. Thence I run $S.69^{\circ}46'W.$ on a true line betsecs.13 and 24, along rolling foothills sloping SE., over gravelly and stony ground; through dense sagebrush undergrowth. Wash 25 lks.wide, 8 ft.deep, drains $S.65^{\circ}E.$
30.20	Set a trachyte stone 13 x 10 x 8 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor. marked $\frac{1}{4}$ on N.face; and raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
40.02	Road from Cedar City to Trough Springs, bears S. $55^{\circ}E.$ and N. $55^{\circ}W.$
80.04	The cor.of secs.13,14,23, and 24.

Subdivision of T. 33 S., R. 18 W.

Chains. No.	Land, rolling foot hills, sloping SE. Soil, gravelly and stony; 2d and 3d rate. Sage and native grass. Dense sagebrush undergrowth on 80.04 chs.
5.00	From S.E. corner of sec. 13, N.O° 11' W. bet. secs. 13 & 14, Ascending over rolling foot hills, sloping SE. on gravel- ly and stony ground; through dense sagebrush under- growth.
5.33	Road from Cedar City to Trough Springs, bears SE. and NW.
9.25	Trail bears NW. and SE.
25.50	Road from Trough Springs to Hooley Springs bears N. and W.
25.95	Trail bears E. and W.
40.00	Set a granite stone 18 x 8 x 5 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits imprac- ticable.
44.00	Ravine 30 lks. wide, 8 ft. deep, drains SE.
57.50	Foot of spur, projects SE.
65.00	Top of spur, projects SE. Descend.
73.50	Head of hollow, 75 ft. deep; drains SE. Ascend.
80.00	Set a trachyte stone 17 x 12 x 10 ins., 12 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, marked with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor. Pits impracticable.
	Land, foothills and mountains.
	Soil, gravelly and stony; 2d and 3d rate.
	Sage and grass.
	No timber.
	Land covered with dense undergrowth 80.00 chs.
	Aug. 7, 1912.

Subdivision of T.33 S., R.18 W.

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Chains	Aug.8, 1912: At 8h 5m a.m.l.m.t., I set off $37^{\circ} 57' N.$ on the lat.arc; $16^{\circ} 10' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.11,12,13, and 14. Thence I run $N.89^{\circ} 46' E.$ on a random line betsecs.12 and 13, Set temp. $\frac{1}{4}$ sec.cor.
40.00	Intersct 3d Auxiliary Guide Meridian 2 lks.S.of cor.of secs.7,12,13, and 18, heretofore described. Thence I run $S.89^{\circ} 45' W.$ on a true line betsecs.12 and 13, Descending over southwesterly slope ; through dense sagebrush undergrowth, over gravelly and stony ground.
14.00	Hollow 4 chs.wide, 2 ft.deep, heads NW., drains SE.
39.99	Set a trachyte stone 15 x 12 x 10 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of corner. Pits impracticable.
50.60	Wash, 40 lks.wide, 15 ft.deep; heads NW. ; drains SE.
65.00	Hollow, 100 ft.deep, drains SE. Ascend over NE.slope of ridge.
75.00	Top of ridge, bears NW. and SE.
79.98	The cor.of secs.11,12,13, and 14. Land, mountainous. Soil, gravelly and stony; 2d and 3d rate. Native grass and sagebrush. No timber. Dense undergrowth 79.98 chs.
3.50	N.O° 11'W.betsecs.11 and 12, Ascending over gravelly and stony ground; through dense sage undergrowth.
6.25.	Top of ridge, bears SE. and NW. Descend Enter scattering timber, cedar and nut pine, bears E. and W.
12.88	Hollow at foot of spur, drains SE. Ascend.

Subdivision of T.33 S., R.18 W.

Chains.	
16.60	Top of spur, 100 ft. high, projects S.70° E. Ascend.
22.00	Head of hollow, which drains SE. Ascend.
29.50	Top of spur, 125 ft. high, projects SE. Ascend.
33.00	Foot of spur, bears NW. & SE.
33.45	Trail bears NW. & SE. Set a granite stone 24 x 6 x 5 ins., 18 ins. in a mound of stone, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
	A cedar 8 ins.dia.bears S.32°E. 26½ lks.dist. mkd. $\frac{1}{4}$ S 12 B T
	A nut pine 6 ins.dia.bears S.68½°W.69 lks.dist. mkd. $\frac{1}{4}$ S 11 B T
46.54	Ravine 50 lks.wide, 10 ft.deep, drains SE. Ascend.
80.00	Set a trachyte stone 22 x 12 x 8 ins., 17 ins.in a mound of stone, for cor.of secs.1,2,11, and 12, mkd.with 5 notches on S., and 1 notch on N.edges;from which A nut pine 10 ins.dia.bears N.12° 40'E. 45 lks. dist., mkd.T 33 S R 18 W S 1 B T
	No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high W.of cor.
	Land, mountainous.
	Soil, gravelly and stony; 2d and 3d rates.
	Fair grazing.
	Timber, scattering cedar and nut pine.
	Mountainous land and dense undergrowth 80:00 chs. 0.1. 0.25.0 mounds, 0.10 10' apart, min. 20'. dist. 10'. 0.1
	0.25.0 mounds, 0.15 10' apart, min. 20'. dist. 10'. 0.1 N.89° 45'E.on a random line betsecs.1 and 12. Set temp. $\frac{1}{4}$ sec.cor.
40.00	Intersect 3d Auxiliary Guide Meridian 5 lks.N.of cor.
80.02	0.05.0 mounds, 0.15 10' apart, min. 20'. dist. 10'. 0.1

Subdivision of T.33 S., R.18 W.

		Lands
Chains.	of sec. 1, 6, 7, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26, all of which are described in the original survey of the subdivision. Thence I run	66.84
	... S. 89° 47' W. on a true line bet. secs. 1 and 12,	63.25
	Descending over gravelly and stony ground; through	
	... dense sage and medium dense cedars and nut pine.	
4.50	Ravine, 75 ft. deep, drains S. 60° E.	
	Ascend.	
17.00	Top of spur, 100 ft. high, projects S. 20° E.	
	Descend.	
23.50	Ravine, drains S. 20° W.	
	Ascend.	
28.00	Top of spur, 100 ft. high, projects S. 20° E.	
	Descend.	
34.50	Hollow, heads NW. about 15 chs.; drains S. 20° E.	
	Ascend.	
40.01	Set a granite stone 14 x 10 x 5 ins., 10 ins. deep in mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; end raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.	
	Aug. 8, 1912: At this cor. I set off 16° 6' N. on the decl. arc; and at 0 h 5m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is 37° 58' N.	
46.25	Top of granite ridge, 1300 ft. high, bears N. & S.	
	Descend.	
53.70	Hollow, drains S. Ascend.	
56.50	Top of spur, bears N. and S.	
	Descend.	
61.50	Hollow, 75 ft. deep, drains SE. soil, gravelly and	
77.50	Wash, 1.50 chs. wide, 25 ft. deep, drains S. 30° E.	
80.02	The cor. of secs. 1, 2, 11 and 12.	
	Land, mountainous.	
	Soil, gravelly and stony; 2d and 3d rates.	
	Timber; cedar and nut pine.	
	Mountainous land and dense sagebrush undergrowth	
12.88	Hollow at foot of spur, drains SE. Ascend.	

Subdivision of T.33 S., R.18 W.

Chains.	chs.
40.00	N.0°11'W.on random line betsecs.1 and 2, Set temp. $\frac{1}{4}$ sec.cor.
79.18	Intersect N.bdy.of Tp. 2 lks.W.of cor.of secs.1,2,35 and 36, heretofore described. Thence I run S.0° 10'E.on a true line betsecs.1 and 2, Descending over volcanic ridge; through scattering cedar and nut pine.
9.50	Head of hollow, which drains SE. Leave volcanic ridge. Timber more dense; sagebrush undergrowth. Ascend.
18.50	Ridge, bears NW. and SE. Descend.
39.18	Set a trachyte stone 20 x 14 x 5 ins., 15 ins.in mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.; from which A nut pine 8 ins.diam.bears N.48° 30'W. 19 lks. dist., mkd. $\frac{1}{4}$ S 2 B T A nut pine 10 ins.dia.bears S.66°E.25 lks.dist. mkd. $\frac{1}{4}$ S 1 B T
45.50	South foot of main ridge bears NW. and SE. Descending more gradually.
72.50	Hollow, drains S.30°E.
79.18	The cor.of secs.1,2,11, and 12. Land, mountainous. Soil, stony and gravelly; 3d and 4th rate. Timber, nut pine and cedar. Undergrowth sagebrush.
	Mountainous land 79.18 chs.

August 8, 1912.

Subdivision of T.33 S., R.18 W.

Chains.

August 9, 1912: At 8h 5m a.m.l.m.t., I set off $37^{\circ} 54'$ N.on lat.arc; $15^{\circ} 52'N$.on decl.arc; and determine a meridian with the solar at the cor.of sections, 34, and 35 on S.bdy.of Tp., heretofore described.

Thence I run

$N.0^{\circ} 11'W$.bet.secs.34 and 35,

Over gentle SE.slope adjoining foothills; through dense sagebrush undergrowth; clay, loamy soil.

- 4.00 Trail bears S: $80^{\circ}E$.and N. $80^{\circ}W$.
- 5.00 Old road, Cedar City to State Line bears S. $80^{\circ}E$. and N. $80^{\circ}W$.
- 21.50 Trail bears NW. and SE.
- 40.00 Set a granite stone 14 x 12 x 10 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; dug pits 18 x 18 x 12 ins.N.and S.of stone 3 ft.dist.; and raised a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
- 61.65 Trail bears NW. and SE.
- 80.00 Set an iron stone 18 x 12 x 6 ins., 12 ins.in the ground for cor.of secs.26,27,34, and 35, marked with 1 notch on S. and 2 notches on E.edges; and raise a mound of stone 2 ft base, $1\frac{1}{2}$ ft.high W.of cor.
- Pits impracticable.
- Land, valley, almost level; gently slopes SE.
- Soil, clay loam and gravelly; 1st and 2d rate.
- No timber.
- Native grass and sage undergrowth.
- Dense sagebrush undergrowth 80:00 chs.

-
- N. $89^{\circ} 44'E$.on a random line bet.secs.26 and 35,
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 60.02 Intersect N. and S.line 5 lks.N.of the cor.of secs.25,26, 35, and 36. Thence I run
- S. $89^{\circ} 46'W$.on true line bet.secs.26 and 35,

Subdivision of T.33 S., R.18 W.

Chains. etc.	Over rolling foothills sloping SE.; dense sagebrush undergrowth and gravelly soil.
28.70	Trail, bears NW. and SE.
40.01	Set an iron stone 13 x 10 x 8 ins., 9 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raised a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor. Pits imprac- ticable.
48.67	Trail bears NW. and SE.
50.52	Trail bears NW.and SE.
76.88	Trail bears N. 25° W. and S. 25° E.
80.02	The cor. of secs: 26.27.34, and 35. Land foothills, slightly rolling and sloping SE. Soil, clay and gravelly; 2d rate. No timber. Native grass and sage undergrowth. Dense sagebrush undergrowth 80.02 chs.

N.O° 11'W.betsecs.26 and 27,

Gradually ascending over rolling foothills, sloping SE.
through dense sage undergrowth, on clayey, gravelly
soil.

21.40	Trail bears NW. and S. 20° E.
40.00	Set a granite stone 16 x 12 x 8 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
80.00	Set a granite stone 14 x 12 x 8 ins., 9 ins.in the ground, for cor.of secs.22,23,26 & 27, marked with 2 notches on S.and 2 notches on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable. Land, rolling foothills, sloping SE. Soil, clay and gravelly; 2d rate. Undergrowth, native grass and sage. No timber.

Subdivision of T.33 S., R.18 W.

- Chains. Dense sagebrush undergrowth 80.00 chs.
Aug. 9, 1912: At this cor. I set off $15^{\circ} 49' N.$ on the decl. arc; and at 0 h 5 m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 56' N.$, which is the proper lat. nearly.
-
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
79.98 Intersect N. and S. line 2 lks. N. of cor. of secs. 23, 24, 25, and 26.
Thence I run
S. $89^{\circ} 47' W.$ on true line bet. secs. 23 and 26
Over rolling foothills sloping SE.; through dense sagebrush undergrowth on gravelly soil.
18.50 Hollow, 5 chs. wide, 100 ft. deep, drains SE.
24.50 Hollow, 2 chs. wide, 75 ft. deep, drains SE.
39.99 Set a trachyte stone 16 x 6 x 6 ins., 11 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
79.98 The cor. of secs. 22, 23, 26, and 27.
Land, rolling foothills sloping SE.
Soil, gravelly and stony; 2d and 3d rate.
Greasewood and sage undergrowth.
No timber.
Dense undergrowth of sage on 79.98 chs.

N. $0^{\circ} 11' W.$ bet. secs. 22 and 23,
Ascend over foothills sloping SE.; through dense sage undergrowth on gravelly and stony ground.
35.00 Foot of high knoll; ridge bears E. & W.
Ascend.
38.50 Road from Trough Springs to Eight Mile Springs, bears

Subdivision of T. 33 S., R. 18 W.

Chains.	NE. and SW.
40.00	Set a granite stone 14 x 12 x 8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. Pits impracticable.
57.00	Top of spur projects E. from knoll 5 chs. Descend.
72.00	NE. foot of knoll bears SE. and NW.
75.36	Ravine, drains SE.
80.00	Set a trachyte stone 18 x 12 x 10 ins., 12 ins. in the ground, for cor.of secs.14,15,22, and 23, marked with 3 notches on S. and 2 on E.edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor..Pits impracticable.
	Land, foothills and mountainous.
	Soil, gravelly and stony; 2d and 3d rate..
	Grasses and sage.
	No timber.
	Dense sage undergrowth 80.00 chs. Aug. 9, 1912.

Aug.10, 1912: At 8h 5m a.m.l.m.t., I set off $37^{\circ} 56'N.$ on the lat.arc; $15^{\circ} 35'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.14, 15,22, and 23. Thence I run

$N.89^{\circ} 47'E.$ on random line betsecs.14 & 23,

40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S.line 2 lks.S.of the cor.of secs.13,14, 23, and 24. Thence I run
	$S.89^{\circ} 46'W.$ on a true line betsecs.14 and 23,
	Over rolling foothills; through dense sage on gravelly and stony ground.
15.79	Trail bears NW. and SE.
26.00	Trail and old road bears N.and S.
	Trough Springs bears N.about 55 chs.
35.00	Hollow, drains SE.

Subdivision of T.33 S., R.18 W.

Chains	
40.00	Set a trachyte stone 13 x 12 x 4 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor. Pits impracticable. From this $\frac{1}{4}$ sec.cor.Trough Springs Cabin, claimed by Henry Elliker, bears N.16° 50'E.55 chs.dist. Spring 150 lks.west of cabin. Water tank about 1.00 ch.S.of spring.
50.00	Hollow,, drains SE.
63.10	Road from Trough Springs to Eight Mile, bears NE. and SW.
75.00	Hollow,, drains SE.
80.00	The cor.of secs.14,15,22, and 23. From the corner Trough Springs Cabin bears N.46°E. Land,, rolling foothills. Soil, gravelly and stony; 2d.and 3d rates. Undergrowth sage and grass. No timber. Undergrowth dense sagebrush 80.00 chs.

	N.0°11'W.betsecs.14 and 15, Ascend over SE.slope of low ridges; through dense sage undergrowth; gravelly and stony ground.
3.00	Enter scattering cedars, bear NW.. and SE..
3.50	Hollow, 3.00 chs.wide, drains SE.
25.00	Hollow 3.00 chs.wide, drains S.70°E.about 10 chs.; thence SE.
40.00	Set a limestone 15 x 8 x 6 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A cedar 10 ins.dia.bears N.70°E. 105 lks.dist. marked $\frac{1}{4}$ S 14 B. T A cedar, 6 ins.dia.bears S.56°W. 113 lks.dist. marked $\frac{1}{4}$ S 15 B. T
47.00	Old sheep corral bears E.about 6.00 chs.
70.70	SE.foot of spur, bears NW. and SE.

Subdivision of T.33 S., R.18 W.

Chains.	
80.00	Set a trachyte stone 18 x 10 x 8 ins., 12 ins.in the ground, for cor.of secs.10,11,14, and 15, marked with 4 notches on the S.and 2 notches on the E.edges; from which A scrub cedar 12 ins.dia.bears N. $62^{\circ}45'$ E.143 lks. dist., marked T 33 S R 18 W S 11 B T A scrub cedar 8 ins.dia.bears S. 80° E.31 lks. dist., marked T 33 S R 18 W S 14 B T A scrub cedar 8 ihs.dia.bears S. $57^{\circ}W.84.5$ lks. dist., marked T 33 S R 18 W S 15 B T A scrub cedar 6 ins.dia.bears N. $89^{\circ}W.62$ lks.dist. marked T 33 SR 18 W S 10 B T
Land, mountainous.	
Soil, gravelly and stony; 2d and 3d rate.	
Timber, scattering cedars.	
Undergrowth, sage.	
Mountainous land covered with dense undergrowth	80.00 chs.

	N. $89^{\circ}46'E.$ on a random line betsecs.11 and 14,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect N.and S.line 2 lks.N.of cor.of secs.11,12,13, and 14. Thence I run S. $89^{\circ}47'W$.on a true line betsecs.11 and 14.
	Descending over rolling foot hills and low ridges, sloping SE.; through dense sage undergrowth on gravelly and stony ground.
5.50	Enter scattering cedars, bear NE. and SW.
8.50	Easterly foot of ridge, bears NW. and SE.
11.65	Wash, 3 chs.wide, 20 ft.deep, drains SE.
16.20	Ravine 100 lks.wide, 15 ft.deep, drains SE.
34.82	Road from Trough Springs to Central Trough Springs, bears NE. and SW.
40.01	Set a trachyte stone 15 x 10 x 8 ins., 10 ins.in a mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise

Subdivision of T.33 S., R.18 W.

Chains.

a mound of stone for cor. 2 ft. base, marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N.of cor. Pits impracticable.

Central Trough Springs Cabin, claimed by Henry Houchen, bears N. 17° W. about 50.00 chs.dist.

Spring and water tank westerly of cabin.

47.80 Hollow, heads NW. about 20 chs.; drains SE.

57.65 Wash, heads N. and drains south.

70.05 Hollow, 2.00 chs.wide, 75 ft.deep, drains N. 30° E.

80.02 The cor.of secs.10,11,14, and 15.

Land, mountainous.

Soil, gravelly and stony; 2d and 3d rate.

No timber.

Undergrowth grass and sagebrush; good grazing.

Mountainous land and dense undergrowth 80.02 chs.

Aug.10, 1912: At this cor.I set off $15^{\circ} 32'N$.on the decl arc; and at 0 h 5 m. p.m.l.m.t., observe the sun on the meridian; the resulting lat.is $37^{\circ} 57'N.$, which is the proper lat.nearly.

N. $0^{\circ} 11'W$.betsecs.10 and 11,

Through scattering cedars and medium dense sagebrush, over E.slope of high ridge; gravelly and stony ground.

8.00 Head of hollow, drains S. 30° E. Ascend.

40.00 Set a trachyte stone 20 x 10 x 8 ins., 15 ins.in a mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor., on E.slope of high ridge, about 30 chs.E.of top of ridge, which bears NE. and SW.

A scrub cedar 10 ins.dis.bears S. 20° E.75 lks.

dist., marked $\frac{1}{4}$ S 11 B T

A shaggy cedar 30 ins.dis.bears S. 75° W.32.5 lks.

dist., marked $\frac{1}{4}$ S 10 B T

73.00 Top of ridge on N.E.slope, about 350 ft.high, bears NE.

Subdivision of T. 33 S. R. 18 W.

Chains. and SW. Desend over NE.slope.
80.00 Set a granite stone 17 x 12 x 5 ins., 12 ins.deep, in a mound of stone for cor.of secs.2,3,10, and 11, mkd.5 notches on S.end 2 notches on E.edges; from which A double pine, 8 ins.diam., bears S.22° 30'E.. 27 lks.dist., marked T 33 S R 18 W S.11 B T . A cedar 12 ins.diam.bears S.17°30'W. 21 lks.dist. marked T 33 S R 18 W S 10 B T . No other bearing trees within limits; raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. Pits impracticable.
Land, mountainous.
Soil, stony and gravelly; 2d and 3d rate.
Timber, scattering cedar.
Undergrowth sage and grass.
Mountainous land 80.00 chs.

N. 89° 47'E.on a random line betsecs.2 and 11,
40.00 Set temporary $\frac{1}{4}$ sec.cor.
80.00 Intersect N.and S.line 3.lks.N.of cor.of secs.1,2,11, and 12. Thence I run .
S.89° 48'W.on true line betsecs.2 and 11,
Descending through medium dense pine and cedar, and dense sage; over gravelly stony ground.
5.00 Hollow, 2 chs.wide, 75 ft.deep, drains S.10°E. Ascend.
13.00 Top of spur, projects SE.
20.00 Ravine, drains SE. .
35.00 Top of ridge, 150 ft.high, bears S.15°E. and N.15°W.
Descend over SW.slope.
40.00 Set a trachyte stone 16 x 12 x 5 ins., 11 ins.deep, in a mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, 1½ ft.high N.of cor. Pits impracticable.
On SW.slope of high ridge.
54.00 Center Trough Springs Cabin, claimed by Henry Houchen,

Subdivision of T. 33 S., R. 18 W.

Chains.	bears S.1° 00'W. about 32 chs.
58.75	Foot of ridge, bears NW. and SE.
59.50	Wash, 150 lks. wide, heads NW. and drains SE.
	Ascend NE. slope of ridge.
80.00	The cor. of secs. 2, 3, 10, and 11.
	Land, mountainous.
	Soil, gravelly and stony; 2d and 3d rate.
	Undergrowth grasses and sage.
	Timber, nut pine and cedar.
	Mountainous land and dense sage undergrowth 80.00 chs.

Aug. 10, 1912.

Aug. 12, 1912: At 8h 5m a.m.l.m.t., I set off $37^{\circ} 58'$ N. on the lat.arc.; $14^{\circ} 59'$ N. on the decl.arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 10, and 11.

Thence I run

40.00	N.0° 11'W. on a random line bet. secs. 2 and 3,
	Set temp. $\frac{1}{4}$ sec.cor.
79.50	Intersect N.bdy. of Tp. 5 lks. N.cor. of secs. 2, 3, 34, and 35 heretofore described.
	Thence I run
	S.0° 09'E. on true line bet. secs. 2 and 3,
	Descending over stony and gravelly ground; through medium dense cedars, nut pine timber, and scattering sage.
4.00	Hollow, heads NW. about 5.00 chs., drains SE.
	Ascend.
15.50	Top of ridge on E.slope, bears NW. and SE.
	Descend.
39.50	Set a granite stone 17 x 16 x 4 ins., 13 ins. deep in a mound of stone for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. Pits impracticable.
50.80	Small spring bears west about 125 lks.

Subdivision of T. 33 S., R. 18 W.

Chains.	
55.50	Wash, 50 lks.wide, 6 ft.deep, in ravine, drains SE.
55.80	Trail bears NW. and SE.
64.30	Hollow about 2 chs.wide, 100 ft.deep; heads N. 70° W. about 35 chs:dist., drains S. 70° E.
Ascend.	
74.00	Top of ridge, bears N. 70° W. and S. 70° E.
Descend.	
79.50	The cor.of secs. 2, 3, 10, and 11. Land, mountainous. Soil; stony and gravelly; 3d and 4th rate. Undergrowth grass and sage. Timber, cedar and nut pine. Mountainous land 79.50 chs.

Aug. 12, 1912: At the cor.of sections 33, and 34 on the S.bdy.of Tp., Meretofore described, I set off $14^{\circ} 56'$ N.on the decl.arc; and at 0 h 5m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is $37^{\circ} 54'$ N. Thence I run

$N.0^{\circ} 12'W.$ betsecs.33 and 34,

17.14	Ascending gradually over rolling foothills, sloping SE.; through dense sagebrush undergrowth; over gravelly and stony ground.
40.00	Trail and road from Cedar City to State Line, bears S. 80° E. and N. 80° W.
40.00	Set a trachyte stone 14 x 10 x 6 ins., 9 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on W.face; and dig pits 18 x 18 x 12 ins.N.and S.of stone 3 ft.dist.; and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor
80.00	Set a trachyte stone 16 x 8 x 6 ins., 11 ins.in the ground, for cor.of secs. 27, 28, 33, and 34, marked with 1 notch on the S.and 3 notches on the E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.

Subdivision of T.33 S., R.18 W.

Chains.

Land, rolling foothills.

Soil gravelly and stony; 2d and 3d rate.

No timber.

Undergrowth sagebrush and grass.

Land covered with dense undergrowth 80.00 chs.

N.89° 44'E.on a random line bet.secs.27 and 34,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N.and S.line at the cor.of secs.26,27,34, and
35. Thence I run.

S.89° 44'W.on true line bet.secs.27 and 34,

Over rolling foothills; through dense sagebrush under-
growth, on gravelly and stony ground.

20.57 Trail bears NW. and SE.

22.71 Wash 50 lks.wide, 10 ft.deep, drains SE.

35.88 Wash, 50 lks.wide, 12 ft.deep, drains SE.

40.02 Set a trachyte stone 18 x 12 x 7 ins., 12 ins.in the
ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; dig pits
18 x 18 x 12 ins.E.and W.of stone 3 ft.dist.; and
raise a mound of earth $3\frac{1}{2}$ ft base, $1\frac{1}{2}$ ft.high N.of
cor.

40.15 Trail bears S.55° E. and N.55°W.

80.04 The cor.of secs.27,28,33, and 34.

Land, rolling foothills.

Soil, gravelly and stony; 2d and 3d rates.

No timber.

Undergrowth sage and grass.

Land covered with dense undergrowth 80.04 chs.

N.0° 12!W.bet.secs.27 and 28,

Ascending over rolling foothills, sloping SE.; through
dense sagebrush undergrowth on gravelly and stony
ground.

Subdivision of T.33 S., R.18 W.

Chains.	
27.25	Hollow 4.00 chs.wide, 25 ft.deep, and wash 20 lks.wide, 6 ft.deep, drains SE. Trail bears NW. and SE.
40.00	Set a granite stone 14 x 12 x 6 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{2}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable.
52.00	Road from Trough Springs to Eight Mile, bears NE. & SW.
60.00	Ridge bears NW. and SE.
70.00	Ravine 75 lks.wide, 15 ft.deep, drains SE.
80.00	Set a granite stone 18 x 12 x 10 ins., 12 ins.in the ground, for cor.of secs.21,22,27, and 28, marked with 2 notches on S.and 3 notches on E.edges; from which A cedar 18.ins.dia.bears N. $49^{\circ} 30'$ E. 248 lks.dist. marked T 33 S R 18 W S '22 B T A cedar 9 ins.dia.bears S. 20° E. 180 lks.dist. marked T 33 S R 18 W S '27 B T A cedar 16 ins.dia.bears N. 38° W. 243 lks.dist. marked T 33 S R 18 W S '21 B T No other bearing trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor. Pits impracticable. Land, rolling foothills, sloping SE. Soil, gravelly and stony; 2d and 3d rate. No timber. Grasses and sage. Land covered with dense undergrowth 80.00 chs.

Aug.12, 1912.

Aug.13, 1912: At 8h 05m a.m.l.m.t., I set off $37^{\circ} 56'N.$ on the lat.arc; $14^{\circ} 41'W.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.21, 22,27, and 28. Thence I run N. $89^{\circ} 44'E.$ on random line betsecs.22 and 27,
.40.00 Set temp. $\frac{1}{4}$ sec.cor.

Subdivision of T.33 S., R.18 W.

- Chains. 80.02 Intersect N. and S. line 4 lks. N. of the cor. of secs. 22, 23, 26 and 27. Thence I run S. $89^{\circ} 46' W.$ on true line bet. secs. 22 and 27, over rolling foothills, sloping SE.; through dense sage on gravelly and stony ground.
- 40.01 Set a volcanic stone 12 x 10 x 8 ins., 8 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable.
- 46.75 Road from Trough Springs to Eight Mile bears NE. and SW.
- 55.00 Enter scattering cedars, bear E. and W.
- 60.00 Hollow, 8.00 chs. wide, 50 ft. deep, drains S. $30^{\circ} E.$
- 80.02 The cor. of secs. 21, 22, 27, and 28.
Land; rolling foothills; SE. slope.
Soil, gravelly and stony; 2d and 3d rate.
Timber, scattering cedars.
Land covered with dense undergrowth 80.02 chs.
-
- 17.50 N. $0^{\circ} 12' W.$ bet. secs. 21 and 22, Ascending over rolling foothills, sloping SE.; through dense sage undergrowth, scattering cedars and nut pine, on gravelly and stony ground.
- 18.00 Hollow, 50 ft. deep, at SW. foot of volcanic knoll, draining SE.
Leave dense; enter scattering sagebrush.
- 40.00 Begin ascent of SW. slope of volcanic knoll, bears NW. and SE.
Set a trachyte stone 22 x 10 x 8 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 24 ins. dia. bears N. $58^{\circ} E.$ 31 lks. dist. mkd. $\frac{1}{4}$ S 22 B T
- A cedar 8 ins. dia. bears N. $86^{\circ} W.$ 75 lks. dist. mkd. $\frac{1}{4}$ S 21 B T
- 42.00 Volcanic knoll about 250 ft. high, bears E. about 10 chs.

Subdivision of T.33 S., R.18 W.

Chains	Continue ascent over rolling W. and NW. slope of knoll.
80.00	On spur of volcanic ridge on W. slope. Set a trachyte stone 18 x 12 x 7 ins., 12 ins. in the ground for cor. of secs. 15, 16, 21, and 22, mkd. 33 S on NE., 18 W on SE faces, with 3 notches on S. and E. edges from which
	A pinon pine, 6 ins. dia. bears N. 37° 15' E. 173 lks. dist., mkd. T 33 S R 18 W S 15 B T
	A cedar 10 ins. dia. bears S. 31° E. 121 lks. dist. mkd. T 33 S R 18 W S 22 B T
	A scrub cedar 10 ins. dia. bears S. 67° 45' W. 198 lks. dist., mkd. T 33 S R 18 W S 21 B T
	A scrub cedar 8 ins. dia. bears N. 22° W. 101 lks. dist. mkd. T 33 S R 18 W S 16 B T
	Land, rolling foothills on 18.00 chs.; mountainous on 62.00 chs.
	Soil, clay, gravelly, and stony; 3d and 4th rate.
	Native grasses; sage undergrowth.
	Timber, nut pine and cedar.
	Dense sagebrush undergrowth 18.00 chs.
	Mountainous land 62.00 chs.

	N 89° 46' E. on random line bet. secs. 15 and 22,
40.00	Set temp. + sec. cor.
40.00	Intersect N. and S. line 2 lks. N. cor. of secs. 14, 15, 22, and 23. Thence I run
	S. 89° 47' W. on true line bet. secs. 15 and 22,
	Gradually ascending over gravelly stony ground; through dense sagebrush undergrowth.
9.20	NE. foot of volcanic knoll about 50 ft. above sec. cor., bearing N. and S. line 2 lks. N. cor. of secs. 14, 15, 22, and 23. Ascend through medium dense sagebrush.
15.00	Enter scattering cedars and nut pine, bearing N. and S.
16.00	Top of knoll on N. slope, about 150 ft. above the foot,

Subdivision of T. 33 S., R. 18 W.

Chains.	
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S. line 2 lks. N. of the cor. of secs. 10, 11, 14, and 15. Thence I run S. $89^{\circ} 48' W.$ on true line bet. secs. 10 and 15, Ascending through scattering cedars, nut pine and medium dense sagebrush, along S. slope of high ridge, over gravelly and stony ground.
2.00	Top of spur, 50 ft. above the sec.cor., extends SE. Descend.
8.00	Ravine 1.00 ch.wide, 50 ft. deep, drains S. $20^{\circ} E.$, heads N. 10 chs.
15.50	Hollow 2.00 chs. wide, 20 ft. deep, heads N. $5^{\circ} W.$ about 20 chs., drains S. $20^{\circ} E.$
20.00	Top of spur, about 100 ft. above sec.cor., projects SE. Descend.
23.00	Ravine at foot of spur, 100 lks.wide, 30 ft. deep, drains S. $20^{\circ} E.$
37.00	Ravine 75 lks.wide, 15 ft. deep, drains S., heads N. $20^{\circ} W.$ about 20.00 chs.
40.02	Set a granite stone 14 x 12 x 6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
48.00	Enter dense cedars bearing N. and S.
53.00	Ravine 150 lks.wide, 25 ft. deep, heads N. about 15 chs.; drains S.
63.85	Hollow 1.00 ch.wide, 25 ft. deep, heads NW. about 10 chs. drains S. $20^{\circ} E.$
68.00	Spring at head of last hollow, heads N. about 10 chs.
78.00	Ridge bears NE. and SW.
80.04	The cor. of secs. 9, 10, 15, and 16. Land, mountainous and broken. Soil, clay, gravelly and stony; 3rd and 4th rate. Native grass and sage undergrowth. Timber, cedar and nut pine. Mountainous land 80:04 chs.

Subdivision of T. 33 S., R. 18 W.

Chains.	N.0° 12' W. bet. secs. 9 and 10, Ascending over gravelly and stony ground; through medium dense cedar, nut pine, and sage undergrowth.
10.00	Small spring bears E. about 10 chs.
40.00	Set a granite stone 16 x 18 x 6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
42.00	A nut pine 10 ins. dia. bears S.69° 30'E. 23 lks. dist., marked $\frac{1}{4}$ S 10 B T
43.00	A nut pine 8 ins. dia. bears N.80° 30'W. 23 lks. dist., marked $\frac{1}{4}$ S 9 B T
44.00	Thence along top of ridge.
42.00	Descend over NW. slope of ridge.
53.00	Hollow, about 100 ft. above top of ridge, heads N.80°E. drains S.80°W.
62.00	Top of ridge, 150 ft. above hollow, bears NE. and SW.
62.25	Descent over NW. slope of ridge.
66.25	Hollow 7.00 chs. wide, 100 ft. deep, drains SW.
	Ascend.
80.00	On top of hill,
	Set a granite stone 24 x 10 x 4 ins., 18 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, marked with 5 notches on the S. and 3 notches on the E. edges; from which
	A nut pine 12 ins. dia. bears N.17° E.108 lks. dist. marked T 33 S R 18 W S 3 B T
	A nut pine 10 ins. dia. bears S.15° E.54 lks. dist. marked T 33 S R 18 W S 10 B T
	A nut pine 8 ins. dia. bears S.29° 30' W.59 lks. dist. marked T 33 S R 18 W S 9 B T
	A nut pine 8 ins. dia. bears N.43° W.48 lks. dist. marked T 33 SR 18 W S 4 B T
	Land, mountainous and broken.
	Soil, gravelly and stony; 2d and 3d rate.
	Timber, nut pine and cedar.
	Undergrowth, sagebrush and grass.

Subdivision of T.33 S. R.18 W.

Chains.

Mountainous and broken land 80.00 cha.

- N.89° 48' E. on a random line bet. secs. 3 and 10,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.06 Intersect N. and S. line 2 lks. N. of the cor. of secs. 2,
3, 10, and 11. Thence I run
S.89° 49' W. on true line bet. secs. 3 and 10,
Ascending over NE. slope of ridge; through medium dense
cedars, nut pine, and scattering sage; over gravelly
and stony ground.
10.00 Top of ascent on NE. slope, 100 ft. above the sec.cor.
Descend over NW. slope of ridge.
27.00 Hollow, about 150 ft. below top of ridge, bears NE. and
SW. Ascend over SE. slope.
39.00 Top of ascent, about 150 ft. above foot, bears N. 20° E. and
S. 20° W.
Descend over W. slope of spur.
40.03 Set a granite stone 14 x 10 x 6 ins., 9 ins. in the
ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from
which
A nut pine 9 ins. dia. bears N. 32° 15' E. 34 lks. dist.
marked $\frac{1}{4}$ S 3 B T
A nut pine 10 ins. dia. bears S. 18° 30' W. 15 lks.
dist., marked $\frac{1}{4}$ S 10 B T
45.00 Hollow 50 ft. below $\frac{1}{4}$ sec.cor. Ascend over S. slope.
53.50 Ascend SE. slope.
64.50 Top of ascent on ridge, 150 ft. above the foot bears NE.
and SW.
Descend over NW. slope of ridge.
73.50 Ravine at foot of ridge, heads NE., drains SW.
Ascend over S. slope of ridge.
80.06 The cor. of secs. 3, 4, 9, and 10.
Land, mountainous and broken.
Soil, gravelly and stony, 2d and 3d rate.

Subdivision of T. 33 S., R. 18 W.

Chains. Undergrowth, sagebrush.

Timber, nut pine and cedar.

Mountainous land 80.06 chs.

Aug. 13, 1912.

Aug. 14, 1912: At 8h⁵m a.m.l.m.t., I set off $37^{\circ} 58'N.$ on the lat.arc; $14^{\circ} 23'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs. 3, 4, 9, and 10.

Thence I run

$N.0^{\circ} 12'W.$ on a random line bet.secs. 3 and 4,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.82 Intersect N.bdy.of Tp. 10 lks.W.of the cor.of secs. 3, 4, 33, and 34, heretofore described.

Thence I run

$S.0^{\circ} 08'E.$ on true line bet.secs. 3 and 4,

Descending over stony, gravelly soil, through cedars and nut pine and sagebrush undergrowth.

7.60 Hollow, 5.00 chs.wide, drains S. $70^{\circ}E.$ about 15 chs.; thence SW. Ascend.

13.00 Top of ridge, 100 ft.above hollow, bears E.and W.

Descend over SE.slope.

31.00 Trail bears NE. and SW..

Ravine 100 ft.below top of ridge, drains SW.

39.82 Set a trachyte stone 16 x 10 x 8 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A nut pine 8 ins.dia.bears S. $69^{\circ}30'E.$ 58 lks.dist. marked $\frac{1}{4} S\ 3\ B\ T$

A nut pine 6 ins.dia.bears S. $89^{\circ}W.$ 101 lks.dist.

marked $\frac{1}{4} S\ 4\ B\ T$

41.00 Ravine at foot of ridge, 2.00 chs.wide, 25 ft.deep, drains SW.. Ascend..

50.25 Top of ridge bears NE. and SW..

Descend..

56.00 Hollow, 150 ft.deep, drains SW..

Subdivision of T.33 S., R.18 W.

Chains.	N.30°E. and S.30°W.
59.00	Trail, bears NW. and SE.
75.00	Ravine, 25 ft. deep, drains S.30°E.
80.18	The cor. of secs. 28, 29, 32, and 33. Land, mountainous and rolling foothills. Soil, stony and gravelly; 2d and 3d rate. Timber, scattering cedars on last 44 chs. Land covered with dense undergrowth 80.18

	N.0° 13'W. bet. secs. 28 and 29.
	Over rolling foothills; through dense sage and scattering cedars; over gravelly and stony ground.
3.72	Leave E. point of granite ridge, bears NW.
6.42	Trail, bears E. and W., in hollow, drains SE.
14.00	Trail, bears NE. and SW.
24.00	S. foot of spur ridge, 100 ft. above the sec.cor., bears N.70°E. and S.70°W.
31.00	Top of spur ridge, 100 ft. high, bears NW. and SE. Descend.
35.00	Hollow, 5.00 chs. wide, 100 ft. deep, drains SE. Ascend.
40.00	Set a granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A cedar 8 ins. dia. bears N.77°30'E. 61 lks. dist. marked $\frac{1}{4}$ S 28 B T A cedar 6 ins. dia. bears N.72° 15'W. 56 lks. dist. marked $\frac{1}{4}$ S 29 B T
41.00	Top of spur, bears NW. and SE. Descend.
46.00	Hollow, heads NW. about 3.00 chs., drains SE. Ascend high ridge, bears SE. and W.
63.00	Top of granite ridge, 400 ft. high, bears NW. and SE. Descend.
74.25	Hollow, 75 ft. deep, drains E. Ascend.
76.50	Top of spur, bears E. and W.

Subdivision of T.33 S., R.18 W.

- Chains. Descend.
- 60.00 Set a granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, marked with 2 notches on S. and 4 notches on E. edges; from which A nut pine 8 ins. dia. bears N. 16° E. 81 lks. dist. marked T 33 S R 18 W S 21 B T
- A cedar 20 ins. dia. bears S. 86° E. 167 lks. dist. marked T 33 S R 18 W S 28 B T
- A pinyon pine 8 ins. dia. bears S. 71° W. 75 lks. dist. marked T 33 S R 18 W S 29 B T
- A cedar 22 ins. dia. bears N. 86° W. 59 lks. dist., mkd. T 33 S R 18 W S 20 B T
- Land, rolling foothills and mountainous.
- Soil, gravelly and stony; 2d and 3d rate.
- No timber.
- Land covered with dense undergrowth 80.00 chs.
-
- N. $89^{\circ} 45'$ E. on random line bet. secs. 21 and 28, Set temp. $\frac{1}{4}$ sec. cor.
- 0.00 Intersect N. and S. line 5 lks. N. of cor. of secs. 21, 22, 27, and 28. Thence I run
- 0.26 S. $89^{\circ} 47'$ W. on true line bet. secs. 21 and 28, Over rolling foothills; through dense sage undergrowth and scattering cedars on gravelly and stony ground.
- 3.15 Wash, 50 lks. wide, 15 ft. deep, drains SE.
- 7.25 Road bears N. 30° E. and SW., Tilley Ranch to Eight Mile.
- Ravine, 25 lks. wide, 6 ft. deep, drains SE.
- Ascend.
- 6.00 Ridge bears NW. and SE. Descend.
- 2.00 Hollow, 5.00 chs. wide, .50 ft. deep, heads N. about 20,000 chs., drains S. 30° E.
- 5.00 Begin ascent of ridge, bears N. & SW.
- 0.13 Set a trachyte stone 16 x 12 x 5 ins., 11 ins. in mound of stone for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; from which A pinon pine 6 ins. dia. bears S. 78° W. 96 lks. dist.

Subdivision of T.33 S., R.18 W.

	N.30°E. and S.30°W.
Chains.	
59.00	Trail, bears NW. and SE.
75.00	Ravine, 25 ft. deep, drains S.30°E.
80.18	The cor.of secs.28,29,32, and 33. Land, mountainous and rolling foothills. Soil, stony and gravelly; 2d and 3d rate. Timber, scattering cedars on last 44 chs. Land covered with dense undergrowth 80.18
	N.0° 13'W.betsecs.28 and 29, Over rolling foothills; through dense sage and scatter- ing cedars; over gravelly and stony ground.
3.72	Leave E.point of granite ridge, bears NW.
6.42	Trail, bears E.and W., in hollow, drains SE.
14.00	Trail, bears NE. and SW.
24.00	S.foot of spur ridge, 100 ft.above the sec.cor., bears N.70°E. and S.70°W.
31.00	Top of spur ridge, 100 ft.high, bears NW. and SE. Descend.
35.00	Hollow, 5.00 chs.wide, 100 ft.deep, drains SE. Ascend.
40.00	Set a granite stone 18 x 8 x 6 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which A cedar 8 ins.dia.bears N.77°30'E.61 lks.dist. marked $\frac{1}{4}$ S 28 B T A cedar 6 ins.dia.bears N.72° 15'W.56 lks.dist. marked $\frac{1}{4}$ S 29 B T
41.00	Top of spur, bears NW. and SE. Descend.
46.00	Hollow, heads NW. about 3.00 chs., drains SE. Ascend high ridge, bears SE. and W.
63.00	Top of granite ridge, 400 ft.high, bears NW. and SE. Descend.
74.25	Hollow, 75 ft.deep, drains E. Ascend.
76.50	Top of spur, bears E. and W.

Subdivision of T. 33 S., R. 18 W.

Chains	Descend.
60.00	Set a granite stone 18 x 8 x 6 ins., 12 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, marked with 2 notches on S. and 4 notches on E. edges; from which A nut pine 8 ins. dia. bears N. 46° E. 81 lks. dist. marked T 33 S R 18 W S 21 B T
	A cedar 20 ins. dia. bears S. 86° E. 167 lks. dist. marked T 33 S R 18 W S 28 B T
	A pinyon pine 8 ins. dia. bears S. 71° W. 75 lks. dist. marked T 33 S R 18 W S 29 B T
	A cedar 22 ins. dia. bears N. 86° W. 59 lks. dist., mkd. T 33 S R 18 W S 20 B T
	Land, rolling foothills and mountainous.
	Soil, gravelly and stony; 2d and 3d rate.
	No timber.
	Land covered with dense undergrowth 80.00 chs.
0.00	N. $89^{\circ} 45'$ E. on random line bet. secs. 21 and 28, Set temp. $\frac{1}{4}$ sec. cor.
0.26	Intersect N. and S. line 5 lks. N. of cor. of secs. 21, 22, 27, and 28. Thence I run S. $89^{\circ} 47'$ W. on true line bet. secs. 21 and 28, Over rolling foothills; through dense sage undergrowth and scattering cedars on gravelly and stony ground.
3.15	Wash, 50 lks. wide, 15 ft. deep, drains SE.
7.25	Road bears N. 30° E. and SW., Tilley Ranch to Eight Mile. Ravine, 25 lks. wide, 6 ft. deep, drains SE.
6.00	Ascend Ridge, bears NW. and SE. Descend.
2.00	Hollow, 5.00 chs. wide, .50 ft. deep, heads N. about 20.00 chs., drains S. 30° E.
5.00	Begin ascent of ridge, bears N. & SW.
0.13	Set a trachyte stone 16 x 12 x 5 ins., 11 ins. in mound of stone for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; from which A pinon pine 6 ins. dia. bears S. 78° W. 96 lks. dist.

Subdivision of T. 33 S., R. 18 W.

Chains.

mkd. $\frac{1}{4}$ S 28 B T

A cedar 10 ins. dia. bears N. 24° E. 74 lks. dist.

mkd. $\frac{1}{4}$ S. 21, B T

- 45.00 Top of ridge, about 100 ft. high, bears N., and extends S. about 10.00 chs. Descend.
- 59.80 Hollow, heads N. 30° E. about 8.00 chs., drains SE.
- 67.33 Ridge on east side of hollow, bears north 30° W., and S. 30° E.
- 70.34 Wash, 40 lks. wide, 6 ft deep in hollow, drains SE.
- 71.13 Trail in hollow, bears N. 30° W. and S. 30° E.
- 75.30 Begin ascent of ridge on W. side of hollow, bears NW. and SE.
- 80.26 The cor. of secs. 20, 21, 28, and 29.
Land, rolling foothills and mountainous.
Soil, gravelly and stony; 2d and 3d rate.
Timber, scattering cedars.
Land covered with dense undergrowth 80.26 chs.

Aug. 14, 1912.

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- Aug. 15: I set off $37^{\circ} 56' N.$ on the lat. arc; $14^{\circ} 4' N.$ on the decl. arc; and at 8 h. 4 m. a.m. l.m.t., determine a meridian with the solar at the cor. of secs. 20, 21, 28 and 29.
- Thence I run N. $0^{\circ} 13' W.$ betw secs. 20 and 21, descend over NE. slope of ridge; through dense sage and scattering cedars, on gravelly and stony ground.
- 7.00 Foot of ridge, S. side of hollow, 50 ft. below sec. cor. bears NW. and SE.
- 12.34 Trail in hollow, bears NW. and SE.
- 13.64 Wash in hollow, 75 lks. wide, 6 ft. deep, drains SE.
- 16.70 S. foot of ridge on N. side of hollow, bears NW. and SE. Ascend through less dense sage.
- 27.00 Top of spur on W. slope of ridge, extends SW. about 8.00 chs. Descend.

Subdivision of T.33 S., R.18 W.

Chains.	
40.00	Set a granite stone 18 x 12 x 8 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; from which A cedar 6 ins.dia.bears S.60°E. 120 lks.dist. marked $\frac{1}{4}$ S 21 B T
	A nut pine 6 ins.dia.bears N.54°W. 159 lks.dist. marked $\frac{1}{4}$ S 20 B T
7.00	Ravine about 75' ft.deep, heads N.80°E. about 15.00 chs., drains S.80°W.
	Ascend.
1.00	Top of spur on W.slope, projects W.5.00 chs.
	Descend.
7.00	Foot of spur, 75 ft.below the top, bears NE. and SW.
8.00	Wash 30 lks.wide, 6 ft.deep, drains SW.
6.00	Wash, 25 lks.wide, 8 ft.deep, drains SE.
0.00	Begin ascent of ridge, bears SE. & NW.
0.00	Set a granite stone 16 x 12 x 5 ins., 11 ins.in the ground, for cor.of secs.16,17,20, and 21, mkd.with 3 notches on S.and 3 notches on E.edges; from which A cedar 9 ins.dia.bears N.55 $\frac{1}{2}$ °E. 16 lks.dist., mkd.
	T 33 S R 18 W S'16 B T
	A cedar 10 ins.dia.bears S.40°E. 44 lks.dist.mkd.
	T 33 S R 18 W S'21 B T
	A pinon pine, 8 ins.dia.bears S.68°15'W. 24 lks. dist., mkd.T 33 S R 18 W S'20 B T
	A cedar 7 ins.dia.bears N.49°W.52 lks.dist.mkd.
	T 33 S R 18 W S'17 B T
	Land, mountainous and broken.
	Soil, gravelly and stony; 2d and 3d rate.
	Undergrowth sage and native grasses.
	Timber, scattering cedar and nut pine.
	Mountainous land 80.00 chs.
	N.89°47'E.on random line betsecs.16 and 21,
0.00	Set temp. $\frac{1}{4}$ sec.cor.

Subdivision of T.33 S., R.18 W.

Chains.	
80.24	Intersect N.and S.line 5 lks.S.of the cor.of secs.15,16, 21, and 22. Thence I run S.89° 45'W.on true line betsecs.16 and 21, Descending over gravelly stony ground; through medium dense sage and scattering cedars.
1.00	Enter thick cedars bearing N.and S.
2.64	Ravine 100 lks.wide, 50 ft.deep, drains S.10°W. Old corral bears S.about 6.00 chs. Asc.over E.slope of ridge.
3.50	Road to Tilley's Ranch bears NE. and SW.
40.12	Set a granite stone 20 x 8 x 6 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; and raise a mound of stone 2 ft.base, and $1\frac{1}{2}$ ft.high N.of cor. Pits impracticable.
45.00	Top of ridge, 100 ft.high, bears N.20°E. and SW.
60.00	Top of spur 100 ft.high, extends NW. Descend over NW.slope.
75.25	Ravine at foot of ridge about 100 lks.wide, 50 ft.deep, heads NW., drains S.10°W. Ascend.
80.24	The cor.of secs.16,17,20, and 21. Land, mountainous and broken. Soil, gravelly and stony; 2d and 3d rate. Undergrowth sagebrush. Timber cedar and nut pine. Mountainous land 80.24 chs.
	N.0° 13'W.bet.secs.16 and 17, Ascending over gravelly and stony ground; through heavy cedars and medium dense sage.
3.42	Top of spur, about 50 ft.above the sec.cor., extends E. about 5.00 chs. to ravine. Descend.
6.50	Ravine at foot.of spur, about 75 ft.deep, drains SE. Ascend over broken ridge.
40.00	Set a trachyte stone 16 x 7 x 6 ins., 11 ins.in the

Subdivision of T.33 S., R.18 W.

Chains.

ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which

A nut pine 6 ins.dia.bears S. $69^{\circ}E$. 40 lks.dist.

mkd. $\frac{1}{4}$ S 16 B T .

A nut pine 6 ins.dia.bears N. $68^{\circ}W$. 31 lks.dist.

mkd. $\frac{1}{4}$ S 17 B T

75.00

Ravine about 100 lks.wide, 75 ft.deep, drains SE.

Ascend.

80.00

Set a trachyte stone 17 x 8 x 5 ins., 12 ins.in the ground, for cor.of secs.8,9,16, and 17, marked with

4 notches on S.and 4 notches on E.edges; from which

A nut pine 6 ins.dia.bears N. $23^{\circ}30'E$.55 lks.dist.

mkd.T 33 S R 18 W S 9 B T

A cedar 8 ins.dia.bears S. $33^{\circ} E.24\frac{1}{2}$ lks.dist.

mkd.T 33 S R 18 W S 16 B T

A cedar 12 ins.dia.bears S. $56^{\circ} 30'W.36$ lks.dist.

mkd.T 33 S R 18 W S 17 B T

A cedar 12 ins.dia.bears N. $8^{\circ} W.58\frac{1}{2}$ lks.dist.

mkd.T 33 S R 18 W S 8 B T

The sec.cor.is on the S.slope of ridge about 600 ft.high.

Land, mountainous,, and broken.

Soil, gravelly and stony; 2d and 3d rate.

Undergrowth sage and native grasses.

Timber, cedars and nut pine.

Mountainous land 80.00 chs.

Aug.15, 1912: At this cor.I set off $14^{\circ} 01'N$.on the decl.arc; and at 0 h 4 m.p.m.l.m.t., observe the sun on the meridian; the resulting lat.is $37^{\circ} 57'N.$, which is the proper lat.nearly.

N. $89^{\circ} 45'E$.on a random line betsecs.9 and 16,

40.00

Set temp. $\frac{1}{4}$ sec.cor.

80.20

Intersect N.and S.line at the cor.of secs.9,10,15, and 16

Thence I run

S. $89^{\circ} 45'W$.on a true line betsecs.9 and 16,

Over stony gravelly ground; through sage and medium dense

Subdivision of T.33 S., R.18 W.

Chains.	cedars and nut pine.'
4.00	Hollow, about 50 ft. deep, heads N.5°W. about 15.00 chs.; drains S.25°E.
	Ascend.
9.00	Top of spur, 100 ft. high, extends S.
	Descend.
20.50	Trail bears N.10°W. and S.10°E.
22.00	E. side pf hollow, and foot of ridge; hollow heads N.10°W drains S.10°E.
23.00	Old pasture fence across hollow, bears N. about 75 lks.
24.00	Ascend.
29.00	Old road bears N.10°E. and S.10°E.
	Old cabin and corral in hollow, bears N.10°E. about 30 chs.dist., known as Tilley's Ranch.
30.25	Ravine 75 lks.wide, 30 ft.deep, heads NW. and drains SW.
40.10	Set a granite stone 16 x 6 x 6 ins., 11 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}$ on N.face; from which A cedar 8 ins.dia.bears N.37°E. 33 lks.dist., mkd. $\frac{1}{4}$ S 9 B T A cedar 6 ins.dia.bears S.31° 45'W. 26 lks.dist. mkd. $\frac{1}{4}$ S 16 B T
43.00	Head of hollow, drains S.20°E.
48.00	Top of ridge, bears S.20°W. and N.20°E.
	Descend.
54.00	Ravine 50 ft.deep, 3.00 chs.wide, drains S.30°W. Ascend.
59.00	Top of ridge, bears SW. and NE'. Descend.
72.30	Hollow, 6.00 chs.wide, 75 ft.deep, heads NW. about 25.00 chs.; drains S.30°E. Ascend.
78.50	Top of ridge about 150 ft.high, bears NE. and SW.
80.20	The cor.of secs.8,9,16, and 17. Land, mountainous and broken.

Subdivision of T.33 S., R.18 W.

chains. Soil, gravelly and stony; 2d and 3d rate.

Undergrowth, sage.

Timber, cedar and nut pine.

Mountainous land on 80.20 chs.

N.0° 13' W. bet. secs. 8 and 9,

Over stony, gravelly ground; through thick cedars and nut pine, and scattering sage. Ascend.

2.00 Top of spur, 75 ft. above the sec.cor., extends SE.

Descend over NE.slope.

8.50 Bottom of hollow, 100 ft. below top of spur, bears NW. and SE. Ascend.

40.00 Set a trachyte stone 16 x 10 x 6 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; from which

A pinon pine, 7 ins.dia.bears N.87° E.19 lks.dist.

mkd. $\frac{1}{4}$ S 9 B T

A cedar 4 ins.dia.bears N.18 $\frac{1}{2}$ ° W.61 lks.dist.

mkd. $\frac{1}{4}$ S 8 B T

Corner on E.slope of a knoll which is about 600 ft.high W.about 20.00 chs.

42.00 Top of ascent, 50 ft.above the $\frac{1}{4}$ sec.cor., bears SE.

Descend over NE.slope.

60.00 Foot of descent, 200 ft.below top bears SE. & NW.

Ascend SE.slope of ridge.

74.70 Ravine, 75 ft.deep, heads NW., drains S.10°E.

Ascend SW.slope.

80.00 Set a trachyte stone 24 x 12 x 5 ins., 18 ins.in the ground, for cor.of secs.4,5,8, and 9, mkd.with 5 notches

on S.and 4 notches on E.edges; from which

A cedar 24 ins.dia.bears N.53° E.33 lks.dist.

mkd.T 33 S R 18 W S 4 B T

A nut pine 10 ins.dia.bears S.81° E.34 lks. dist.

mkd.T 33 S R 18 W S 9 B T

A nut pine 5 ins.dia.bears N.43° W.44 lks.dist.

mkd.T 33 S R 18 W S 5 B T

Subdivision of T.33 S., R.18 W.

Chains.	A pinon pine, 10 ins.dia.bears S.16°W. 38 lks. dist., mkd.T 33 S R 18 W S 8 B T Land, mountainous and broken . Soil, clay, gravelly, and stony; 2d and 3d rate. Undergrowth sage and native grasses. Timber, cedar and nut pine. Mountainous land 80.00 chs.
40.00	N.89°45' E.on a random line bet.secs.4 and 9, Set temp. $\frac{1}{4}$ sec.cor.
80.16	Intersect N.and S.line 7 lks.N.of the cor.of secs.3, 4, 9, and 10. Thence I run S.89°48'W.on true line bet.secs.4 and 9, Descending over S.slope of ridge; through medium dense cedars and nut pine and sage, on gravelly and stony ground.
10.00	Descend becomes more rapid.
15.50	Foot of descent about 200 ft.below sec.cor., bears NE. and SW.
16.00	Trail bears NE. and SW.
16.75	Wash, 20 lks.wide, 6 ft.deep, drains S.20°W. Ascend E.slope of ridges.
20.00	Cabin and corral, known as Tilley's Ranch, bears S. about 50 chs.
26.50	Top of ridge, 200' ft.high, bears N.and S. Descend.
31 00	Hollow, heads NW., drains S.10°E. Ascend.
40.08	Set a granite stone 16 x 10 x 6 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which A cedar 8 ins.dia.bears N.30°W.36 lks.dist. mkd. $\frac{1}{4}$ S 4 B T A nut pine, 6 ins.dia.bears S.60°W. 43 lks.dist mkd. $\frac{1}{4}$ S 9 B T
50.00	Top of ridge, which bears N.30°W. and S.30°E. 150 ft.

Subdivision of T.33 S., R.18 W.

hains.

above $\frac{1}{4}$ sec.cor.

Descend over W. and SW. slopes of high ridges.

0.16

The cor.of secs.4,5,8, and 9.

no

Land, mountainous and broken.

Soil, gravelly and stony; 2d and 3d rate.

Undergrowth sage and grasses.

Timber, cedar and nut pine.

Mountainous land 80.16 chs.

August 15, 1912.

Aug.16, 1912: I set off $37^{\circ} 58' N.$ on the lat.arc; $13^{\circ} 45' N.$ on the decl.arc; and at 8h 4m a.m.l.m.t., determine a meridian with the solar at the cor.of secs.4, 5, 8; and 9.

Thence I run

$N:0^{\circ} 13' W.$ on a random line betsecs.4 and 5,

0.00

Set temp. $\frac{1}{4}$ sec.cor!

0.17

Intersect N.bdy.of Tp.13 lks.W. of the cor.of secs.4,5, 32, and 33, heretofore described.

Thence I run

$S.0^{\circ} 07' E.$ on true line betsecs.4 and 5,

Ascending over NE.slope of high ridge on S:side of Hamblin Valley.

3.00

Top of ridge on E.point of ledges about 300 ft.above the sec.cor., bears $N.70^{\circ} E.$ and $S.70^{\circ} W.$

Descend.

5.00

Hollow, 75 ft:deep, heads W.about 5.00 chs.; drains NE.about 20.00 chs.; thence SE..

Ascend.

0.17

Set a granite stone 14 x 12 x 6 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; from which A cedar 8 ins.dis.bears $N.56^{\circ} E.$ 18 lks.dist.mkd.

$\frac{1}{2}$ S 4 B T

A cedar 12 ins.dis.bears $N.14^{\circ} W.$ 90 lks.dist.,

Subdivision of T. 33 S., R. 18 W.

Cards.	mkd. $\frac{1}{4}$ S 5 B T
45.00	Top of ridge, bears NW. and SE.
	Descend.
63.00	Descend over perpendicular ledges about 50 ft. high on W. slope, bears W. about 75 lks.
	Continue descend over SW. slope of ridge,
80.17	The cor. of secs. 4, 5, 8, and 9.
	Land, mountainous and broken.
	Soil, gravelly and stony; 2d, 3d, and 4th rate.
	Undergrowth sage and grasses.
	No timber.
	Mountainous land 80.17 chs.
	From the cor. of sections, 31, and 32 on S. bdy. of Tp. heretofore described. Thence I run N.0° 13' W. bet. secs. 31 and 32,
	Descend over rolling ridges; through medium dense cedars nut pine, and sage undergrowth.
12.48	Road from State Line to Cedar City, bears NW. and SE.
12.88	Wash, 40 lks. wide, 8 ft. deep, drains SE.
	Eight Mile Cabin, claimed by Dave Francis, bears East 6.00 chs. Ascend SW. slope.
17.29	Trail bears E. and W.
24.49	Trail bears NE. and SW.
40.00	Set a granite stone 18 x 10 x 6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W. face; from which A cedar 10 ins. dia. bears S.66°E. 48 lks. dist. mkd. $\frac{1}{4}$ S 32 B T
	A cedar 8 ins. dia. bears S.44°W. 41 lks. dist. mkd. $\frac{1}{4}$ S 31 B T
	A cabin, claimed by Peter B. Fife bears N.80°30'W. 25.00 chs. dist.; corral and small pasture adjoining on E. and SE.
43.00	Top of granite ridge, 250 ft. above sec.cor., bears

Subdivision of T.33 S., R.18 W.

chains.	NW. and SE. Descend.
57.00	Hollow at foot of ridge, 100 ft. below top, drains SE. Ascend to top of ridge.
80.00	Set a granite stone 18 x 10 x 8 ins., 12 ins .in the ground, for cor.of secs.29,30,31, and 32, mkd.with 1 notch on S.and 5 notches on E.edges; from which A nut pine 10 ins.dia.bears N.48°E.84 lks.dist. mkd.T.33 S R 18 W S 29 B T
	A cedar 14 ins.dia.bears S.3°E. 18 lks.dist. mkd. T 33 S R 18 W S 32 B T
	A nut pine 10 ins.dia.bears S.18°W. 36 lks.dist. . mkd.T 33 S R 18 W S 31 B T
	A cedar 24 ins.dia.bears N.38°W.19 lks.dist., mkd. Land, T.33 S R 18 W S 30 B T
	Land, mountainous and broken.
	Soil, gravelly and stony; 2d and 3d rate.
	Undergrowth sage and grasses.
	Timber, cedars and nut pine.
	Mountainous land 80.00 chs.

40.00	N.89° 44'E.on a random line betsecs.29 and 32 Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line 5 lks.N.of cor.of secs.28,29,32 and 33. Thence I run S.89°46'W.on a true line betsecs.29 and 32,
	Ascend E.slope of granite ridge; through medium dense cedars and nut pine and sage undergrowth.
7.00	Top of granite ridge about 100 ft.high bears NE. about 6.00 chs.and SW. Descend.
12.00	Foot of ridge, bears NE. and SW. Ascend over E.and SE.slopes of ridge.
14.80	Trail bears NE. and SW.
17.90	Wash, 50 lks.wide, 12 ft.deep, drains N.55°E.
39.50	Hollow, drains SE.

Subdivision of T.33 S. R.18 W.

Chains.	
40.02	Set a granite stone 20 x .8 x 6 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which A nut pine 6 ins.dia.bears S.76°E.64 lks.dist. mkd. $\frac{1}{4}$ S 32 E T A nut pine 5 ins.dia.bears S.24°W.49 lks.dist. mkd. $\frac{1}{4}$ S 29 E T
48.00	Top of spur, extends NE.about 5.00 chs.
51.10	W.foot of spur, bears NE. and SW.
	Ascend high ridge.
80.04	The cor.of secs.29,30,31, and 32.
	Land, mountainous and broken.
	Soil, stony and gravelly; 2d and 3d rate.
	Undergrowth sage and native grasses.
	Timber, cedars and nut pine.
	Mountainous land 80.04 chs.
	Aug.16, 1912: At this cor.I set off 13° 42'N.on the decl.arc; and at 0 h 4m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 55'N.which is the proper lat.,nearly.
	S.89° 44'W.on a random line betsecs.30 and 31
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.52	Intersect W.bdy.of Tp. 14 lks.S.of the cor.of secs.25, 30,31, and 36 heretofore described.
	Thence I run
	N.89° 50'E.on true line betsecs.30 and 31
	Descending over NE.slope of ridge, through cedar ande nut pine timber and sage undergrowth, over stony and gravelly ground.s.dia.bears N.89°.13 lks.dist.mkd.
1.50	Foot of ridge, bears NW. and SE.
	Hollow, drains SE. Ascend over broken ridges.
20.00	Top of ascent 150 ft.above the sec.cor., bears N.& S.
	Descend over SE.and E.slope of high ridge.
39.52	Set a trachyte stone 24 x 10 x 8 ins., 16 ins.in the

Subdivision of T.33 S., R.18 W.

- Chains. ground for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which
A cedar 6 ins.dia.bears S.16°W. 13 lks.dist.
mkd. $\frac{1}{4}$ S 31 B T
- No other bearing trees within limits; raise a mound of
stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor. Pits imprac-
ticable.
- 54.00 Foot of ridge on W.side of hollow, bears NE. and SW.
- 58.23 Foot of ridge on E.side of hollow, bears NE. and SW.
Trail bears NE. and SW.
- Ascend NW.slope of ridge.
- 71.00 Top of spur of ridge .250 ft.above hollow, extends SW.
Descend.
- 75.00 Bottom of hollow, drains SE. Ascend to ridge.
- 79.52 The cor.of secs.29,30,31, and 32, on top of ridge.
Land, mountainous and broken.
Soil, gravelly and stony; 2d and 3d rate.
Undergrowth, sage and native grasses.
Timber; cedar and nut pine.
Mountainous land 79.52 chs.
- N.0° 13'W.betsecs.29 and 30,
Ascending over E.and SE.slopes of ridge; through medium
dense cedars, nut pine, and sage undergrowth, on
stony, gravelly ground.
- 22.00 Top of ridge, 250 ft.above the sec.cor., bears NE. and
SW. Descend.
- 29.00 Bottom of hollow, drains SW. Ascend along W.slope.
- 36.00 Top of granite ridge, about 300 ft.above the sec.cor.,
bears N.20°E.
- Eight Mile cabins in sec.31 bear S.19°W. about 75.00 chs.
dist. P.M.C. 1000 ft. above sea level.
- Descend over W.slope of ridge.
- 40.00 Set a granite stone 18 x 12.x 8.ins., 12 ins.in the
ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which

Subdivision of T. 33 S., R. 18 W.

- Chains. A pinon pine 6 ins.dia.bears N.38°W.19 lks.dist.
mkd. $\frac{1}{4}$ S 30 B T.
- A cedar 14 ins.dia.bears N.39°E.19 lks.dist.
mkd. $\frac{1}{4}$ S 29 B T
- 49.75 Foot of descent on W.slope; ascend along W.slope.
- 57.50 Top of granite spur, extends S.30°E.
Descend.
- 63.50 Foot of descent and head of ravine, drains SW.
Ascend over W.slope of ridge.
- 76.00 Top of ridge bears NW. and SE.
Top of knoll about .500 ft.high, bears SW., about 6.00
chs. Descend.
- 80.00 Set a granite stone 34 x 12 x 10 ins., 25 ins.in the
ground, for cor.of secs.19,20,29, ang 30, mkd. with 2
notches on S. and 5 notches on E.edges; from which
A cedar 4 ins.dia.bears N.36°E. 16 lks.dist., mkd.
T 33 S R 18 W S 20 B T
- A nut pine 8 ins.dia.bears S.27°E. 45 lks.dist.
mkd. T 33 S R 18 W S 29 B T
- A nut pine 8 ins.dia., bears S.66°W. 64 lks.dist.
mkd.T 33 S R 18 W S 30 B T
- A nut pine 10 ins.dia.bears N.58°W .50 lks.dist.
mkd.T 33 S R 18 W S 19 B T
- This sec.cor.is on NE.slope of granite ridge, about 300
ft.high.
- Land, mountainous and broken.
- Soil, gravelly and stony; 2d and 3d rate.
- Undergrowth sage and grasses.
- Timber, nut pine and cedar.
- Mountainous land 80.00 chs.
-
- N.89° 46'E.on a random line betsecs.20 and 29,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.08 Intersect.N.and S.line. 7 lks.S.of the cor.of secs.20,21,

Subdivision of T. 33 S., R. 18 W.

Chains. 28, and 29.
Thence I run
S.89°43'W.on true line bet.secs.20 and 29,
Ascending over NE.slope of granite ridge; through scat-
tering cedars, nut pine, and sage.
15.00 Top of ridge, 150 ft.above the sec.cor., bears N.70°W.an
and S.70°E. Descend.
18.25 Hollow, 50 ft.deep, heads N.30°E. 2 chs.; drains SW.
Ascend.
23.00 Top of spur, extends SW.
Descend.
36.25 Hollow, 100 ft.deep, heads N.25°W. about 10.00 chs.,
drains SE.
40.04 Set a granite stone 16 x 10 x 7 ins., 11 ins.in the
ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from
which
A pinon pine 6 ins.dia.bears N.9°W. 7 lks.dist.
mkd. $\frac{1}{4}$ S 20 B T
A cedar 15 ins.dia.bears S.31°W.75 lks.dist.
mkd. $\frac{1}{4}$ S 29 B T
The corner is on the SE.slope of high ridge about 10.00
chs. S.of top of ridge.
63.50 Enter thick cedars, bears N.and S.
64.00 Top of granite ridge bears NE. and SW.
Desc. over NW.Slope.
74.00 Low place; ascend.
80.08 The cor.of secs.19,20,29, and 30.
Land, mountainous and broken.
Soil, gravelly and stony; 2d,3d, and 4th rates.
Undergrowth sage and native grasses.
Timber, medium dense cedar and nut pine.
Mountainous land 80.08 chs. Aug.16, 1912.

Aug.17, 1912: At 8h 4m a.m.l.m.t., I set off 37° 56'N.

Subdivision of T. 33 S., R. 18 W.

Chains.

on the lat.arc; $13^{\circ} 26' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.19, 20, 29, and 30. Thence I run

S: $89^{\circ} 50' W.$ on random line betsecs.19 and 30,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.16 Intersect W:bdy.of Tp.23 lks.N.of the cor.of secs.19, 24, 25, and 30, heretofore described. Thence I run
N: $89^{\circ} 40' E.$ on true line betsecs.19 and 30,
Ascending over stony, gravelly ground; through medium dense cedars, nut pine, and sage undergrowth.

6.00 Top of spur, 100 ft.above the sec.cor.; extends NE. 8.00 chs. Descend.

11.00 Ravine 100 ft.deep, heads SW. 6.00 chs., drains NE.
Ascend.

19.00 Top of ridge, 150 ft.above ravine, bears NW. and SE.
Descend.

21.50 Head of ravine which drains SE.
Ascend S.slope of ridge.

39.16 Set a limestone 16 x 12 x 10 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which a seed of a pinon pine 8 ins.dia.bears. NE. $32^{\circ} E.$ 64 lks.dist.
time... mkd. $\frac{1}{4}$ S 19 B T

A pinon pine 8 ins.dia.bears S. $36^{\circ} E.$ 30 lks.dist.
mkd. $\frac{1}{4}$ S 30 B T

42.70 Top of ridge, bears NW. and SE. Descend.

56.00 Ravine, 5.00 chs.wide, heads SW. about 2.00 chs.;drains N. $10^{\circ} E.$

69.00 Top of granite knoll about 700 ft.high, bears S.about 8.00 chs.

70.00 Top of ascent on N.slope of granite knoll.

Descend over N. & NE.slope of granite knoll.

79.16 The cor.of secs.19, 20, 29, and 30.

Land, mountainous and broken.

Soil, gravelly and stony; 2d, 3d, and 4th rate.

Undergrowth, native grasses and sage.

Subdivision of T. 33 S., R. 18 W.

Timber, medium dense cedar and nut pine.

Mountainous land 79.16 chs.

N.0° 13' W. bet. secs. 19 and 20,

Descending rapidly over NE. and N. slope of high granite ridge; through medium dense cedars, nut pine, and sage undergrowth.

- 00 Descend more gradually.
- 45 Enter hollow at foot of ridge, drains E.
- 80 Trail, bears E. & W. in hollow.
- 75 Wash in hollow, 50 lks. wide, 6 ft. deep, drains E.
- 45 Foot of ridge on N. side of hollow, bears E. and W.
- Ascend.
- 00 Set a granite stone 18 x 12 x 8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which
- A. pinon pine 4 ins. dia. bears N. 67° 15' W. 31 lks.
- dist., marked $\frac{1}{4}$ S 19 B T
- A cedar 3 ins. dia. bears S. 68° E. 10 lks. dist.
- marked $\frac{1}{4}$ S 20 B T
- Corner on S. slope of granite ridge about 100 ft. above the hollow.
- 00 Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears SE. and W.
- Descend.
- 18 Hollow at foot of ridge, 6.00 chs. wide, 200 ft. below the top of ridge, heads W. about 15.00 chs., drains E.
- Ascend.
- 00 Top of spur, extends E.
- 00 Foot of ridge, bears NW. and SE.
- Enter hollow which drains S. 70° E. about 15.00 chs.
- 34 Trail in hollow, bears S. 70° E. and N. 70° W.
- 00 Wash in hollow, 75 lks. wide, 6 ft. deep, drains S. 70° E. about 10.00 chs. to last hollow.
- 50 Foot of ridge on N. side of hollow, bears N. 70° E. and S. 70° W. Ascend SW. slope of granite ridge.

Subdivision of T. 33 S., R. 18 W.

Chains. 79.00	Foot of granite ledges, bearing E. and W. Ascend abruptly over ledges.
80.00	Set a granite stone 16 x 10 x 8 ins., 11 ins. in a mound of stone for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on the S. and 5 notches on the E. edges; from which A pinon pine 4 ins. dia. bears N. 4° 30' E. 36 lks. dist., mkd. T 33 S R 18 W S 17 B T A pinon pine, 10 ins. dia., bears S. 45° 45' W. 11 lks. dist., mkd. T 33 S R 18 W S 19 B T A pinon pine 14 ins. dia. bears N. 78° W. 57 lks. dist. mkd. T 33 S R 18 W S 18 B T No other trees within limits; raise a mound of stone 2 ft. base, 1½ ft. high W. of cor. Land, mountainous and broken. Soil, gravelly and stony; 3d. and 4th rate. Undergrowth, sage, etc., scrubby. Timber, cedar and nut pine. Mountainous land. 80.00 chs. Aug. 17, 1912: At this cor. I set off 13° 23' N. on the decl. arc; and at 0 h 4 m p.m. J. M. T., observe the sun on the meridian; the resulting lat. is 37° 56' N., which is the proper lat. nearly.
40.00	N. 89° 43' E. on a random line bet. secs. 17 and 20, Set temp. ¼ sec. cor.
80.02	Intersect N. and S. line 7 lks. N. of the cor. of secs. 16, 17, 20, and 21. Thence I run S. 89° 45' W. on true line bet. secs. 17 and 20, Ascend over gravelly, stony ground; through scattering cedars, nut pine and sage.
3.50	Top of ridge, 50 ft. above sec. cor., bears N. 10° W. and S. 10° E. Descend.
12.10	Foot of ridges on E. side of hollow, which drains S. 30° E.

Subdivision of T.33 S., R.18 W.

ains.
.00 W.side of hollow.
Ascend ridge bears N.30°W. and S.30°E.
.00 Top of spur, 100 ft. above the hollow, extends SE.
Descend.
.50 Hollow, 3.00 chs.wide, 100 ft.deep, drains SE.
Ascend.
.50 Top of spur, 100 ft.high, extends N.
Descend.
.50 Wash, 50 lks.wide, 8 ft.deep, in hollow, 6.00 chs.wide,
drains SE.
.00 Begin ascent of granite ridges, bears NW. and SE.
.01 Set a granite stone 20 x 8 x 6 ins., 15 ins.in the ground
for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which
A pinon pine 6 ins.dia.bears N.53°W.13 lks.dist.
mkd. $\frac{1}{4}$ S 17 B T
A pinon pine 10 ins dia.bears S.78°W. 36 lks.
dist., mkd. $\frac{1}{4}$ S 20 B T
.00 Top of ridge about 150 ft.above last hollow, bears N.30°
W. and S.30°E. Descend.
.50 Hollow, about 5.00 chs.wide, 100 ft.deep, heads N.30°
W.about 5.00 chs.S.30°E.
Ascend from W.side of hollow, over broken granite ridges.
02 The cor.of secs.17,18,19, and 20.
Land, mountainous and broken.
Soil, gravelly and stony, 2d, 3d, and 4th rates.
Undergrowth sage and native grasses.
Timber, cedar and nut pine.
Mountainous land 80.02 chs.

S.89° 40'W.on random line betsecs.18 and 19,
.00 Set temp. $\frac{1}{4}$ sec.cor.
.74 Intersect W.bdy.of Tp. at 9 lks.S.of cor.of secs.13,18,
19, and 24, heretofore described.Thence I run
N.89° 44'E.on a true line betsecs.18 and 19,

Subdivision of T. 33 S., R. 18 W.

Chains	Descending over easterly slope of ridge; through medium dense cedars, nut pine, and sage undergrowth.
3.00	Foot of ridge W. side of hollow, bears N. 20°W. Hollow drains S. 20°E.
6.00	Trail in hollow N. 20°W. and S. 20°E.
9.00	Begin ascent of SE. slope of granite ridge on E. side of hollow N. 20°W. and S. 20°E.
24.00	Top of granite ridge about 200 ft. above hollow, bears N. and S. Descend.
38.74	Set a granite stone 16 x 8 x 6 ins.; 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face; from which A pinon pine 5 ins. dia. bears N. 18°W. 32 lks. dist. mkd. $\frac{1}{4}$ S 18 B T A cedar 7 ins. dia. bears S. 66°E. 28 lks. dist., mkd. $\frac{1}{4}$ S 19 B T
	Cor. about 150 ft. below top of ridge.
49.00	On NE. slope of ridge; continue descent.
60.50	Enter W. side of hollow, which drains S. 20°E.; trail in hollow, bears NW. and SE.
65.50	Begin ascent of ridge on E. side of hollow, bears N. 30°W. and S. 30°E.
76.40	Spur in SW. slope of ridge, about 150 ft. above the hollow, extends SW. Descend over SW. slope of broken ridges.
78.74	The cor. of secs. 17, 18, 19 and 20. Land, mountainous and broken. Soil, gravelly and stony; 3d and 4th rate. Undergrowth sagebrush. Timber, scattering cedars and nut pine. Mountainous land on 78.74 chs.

Aug. 17, 1912.

Aug. 19, 1912: At 8h 4m a.m.l.m.t., I set off 37° 56' N. on the 1st. arc; 12° 47' N. on the decl. arc; and deter-

Subdivision of T. 33 S., R. 18 W.

ains.

mine a meridian with the solar at the cor. of secs. 17, 18, 19, and 20. Thence I run

N. 0° 13' W. bet. secs. 17 and 18,

Ascend over granite ledges and broken ridges.

.00 Top of ridge about 250 ft. above the sec. cor., bears SE. and N. Descend.

.50 Ravine, 100 ft. deep, heads NE. about 6.00 chs., drains SW. Ascend.

.00 Top of ledges about 150 ft. above ravine, bears NE. and SW.

.00 Set a granite stone 16 x 10 x 5 ins., 11 ins. in mound of stone for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A pinon pine 4 ins. dia. bears S. 70° E. 45 lks. dist.

mkd. $\frac{1}{4}$ S 17 B.T

A pinon pine 5 ins. dia. bears S. 73° W. 40 lks. dist.

mkd. $\frac{1}{4}$ S 18 B.T

.00 Set a granite stone 16 x 10 x 5 ins., 11 ins. in the ground for cor. of secs. 7, 8, 17, and 18, mkd. with 4 notches on the S. and 5 notches on E. edges; from which A pinon pine, 14 ins dia. bears N. 57° 30' E. 12 lks. dist., mkd. T 33 S R 18 W S 8 B.T

A pinon pine, 8 ins. dia. bears S. 51° 30' E. 34 lks. dist., mkd. T 33 S R 18 W S 17 B.T

A pinon pine, 6 ins. dia., bears S. 9° 15' W. 60 lks. dist., mkd. T 33 S R 18 W S 18 B.T

A pinon pine, 10 ins. dia., bears N. 8° W. 6 lks. dist. mkd. T 33 S R 18 W S 7 B.T

Land, mountainous and broken.

Soil, gravelly and stony; 3d and 4th rates,

Undergrowth grasses and sagebrush.

Timber, cedar and pinon pine.

Mountainous land 80.00 chs.

N. 89° 46' E. on a random line bet. secs. 8 and 17,

Set term 1 sec. cor.

Subdivision of T.33 S., R.18 W.

Chains. 80.10	Intersect N. and S. line 16 lks. S. of the cor. of secs. 8, 9, 16 and 17. Thence I run S. $89^{\circ} 39' W.$ on true line bet. secs. 8 and 17, Descending through medium dense cedars, nut pine and sage undergrowth.
4.00	Foot of ridge E. side of hollow, 150 ft. below sec. cor. . bears NW., hollow drains SE.
12.00	Begin ascent of ridge on W. side of hollow, bears NW. and SE.
18.00	Top of ridge, 150 ft. above the hollow, bears NW. and SE. Descend.
23.00	Ravine 4.00 chs. wide, 75 ft. deep, heads NW. about 6.00 chs., drains SE.. Ascend.
31.00	Head of ravine 75 lks. wide, 50 ft. deep, drains S.
38.00	Top of ridge, 150 ft. above last ravine, bears N. and S. Descend over W. slope.
40.05	Set a granite stone 18 x 12 x 4 ins., 12 ins. in the ground, for $\frac{1}{4}$. sec. cor., mkd. $\frac{1}{4}$ on N. face; from which A cedar 6 ins. dis. bears N. $1^{\circ} 15' W.$ 38 lks. dist. mkd. $\frac{1}{4}$ S 8 B T
	A cedar 8 ins. dis. bears S. $67^{\circ} 15' W.$ 40 lks. dist. mkd. $\frac{1}{4}$ S 17 B T
	On W. slope 25 ft. below top of ridge.
48.50	Hollow, 4.00 chs. wide, 75 ft. deep, drains S. $30^{\circ} E.$
55.60	Ravine 100 lks. wide, 75 ft. deep, drains S. $30^{\circ} E.$ Ascend from ravine over a high ridge bearing NW. and SE.
75.00	Top of ridge, 250 ft. above ravine, bears NW. and SE.
80.10	The cor. of secs. 7, 8, 17, and 18. Land, broken, mountainous and broken. Soil, gravelly and stony; 2d and 3d rates. Undergrowth, sagebrush. Timber, medium dense cedar and nut pine. Mountainous and broken land 80.10 chs.

. Subdivision of T.33 S., R.18 W.

Chains.	S. $89^{\circ} 44'W$.on random line betsecs.7 and 18,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
78.38	Intersect W.bdy.of Tp. 16 lks.S.of the cor.of secs.7 and 18, heretofore described.
	Aug.19, 1912: At this cor.I set off $12^{\circ} 44'N$.on the decl.arc; and at 0 h'4m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is $37^{\circ} 57'N.$, which is the proper lat.nearly.
	Thence I run
	N. $89^{\circ} 51'E$.on true line betsecs.7 and 18.
	Ascending over N.and NW.slope of high granite ridge; through medium dense cedars, nut pine, and sage under- growth.
28.00	Top of ridge about 250 ft.above the sec.cor., bears NE. and SW.
32.00	Descend over E.slope of ridges bearing N.and S.
38.38	Set a granite stone 18 x 12 x 6 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{2}$ on N.face; from which A pinon pine 8 ins.dia.bears N. $45^{\circ}E$.34 lks.dist. mkd. $\frac{1}{2}$ S 7 B T
	A pinon pine, 8 ins.dia., bears S. $6^{\circ}W$. 21 lks. dist., mkd. $\frac{1}{2}$ S 18 B T
38.58	Head of ravine which drains N.about 4.00 chs., thence S. $80^{\circ}E$.
64.00	Top of ridge, bears N.and S. Descend .
68.50	West side of hollow at foot of ridge, 4.00 chs., drains S.
70.50	Trail in bottom of hollow, bears N.and S.
72.50	Begin ascent on W.slope of ridge on E.side of hollow
78.38	The cor.of secs.7,8,17, and 18. Land, mountainous. Soil, gravelly and stony; 2d and 3d rate. Undergrowth sagebrush and native grasses. Timber, medium dense cedars and nut pine. Mountainous land 78.38 chs.

Subdivision of T.33 S., R.18 W.

- Chains. N.0° 13' E. bet. secs. 7 and 8.
 Ascending over W.slope of high ridge; through medium dense cedars, nut pine and sage undergrowth.
- 37.00 Top of sharp ridge, bears N. and S. at head of two ravines which drain respectively SW. and SE.
- 40.00 Set a trachyte stone 16 x 10 x 8 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec.cor., mkd. $\frac{1}{2}$ on W.face; from which A pinon pine 7 ins. dia. bears N.3° 30'E. 105 lks. dist., mkd $\frac{1}{2}$ S 8 B T
 A pinon pine 5 ins. dia. bears N.89°W. 3 lks. dist. mkd. $\frac{1}{2}$ S 7 B T
- 48.00 Top of ascent, bears SW.on W.slope of high knoll, the top of which, 300 ft. high, bears E. about 6.00 chs.
 Descend along NW.slope of knoll and ridges.
- 50.00 Set a granite stone 18 x 12 x 8 ins., 12 ins. in the ground, for cor.of secs. 5,6,7, and 8, mkd. with 5 notches on S. and E.edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W.of cor. Pits impracticable.
 From this cor. Government Peak bears N.75°43'W.
 Town of State Line bears N.67°25'W.
 Land, mountainous and broken.
 Soil, gravelly and stony; 3d and 4th rate.
 Undergrowth sage and native grasses.
 Timber, medium dense cedars and nut pine.
 Mountainous land 80.00 chs.

Aug.19, 1912.

Aug.20, 1912: At 8h 3m a.m.l.m.t., I set off 37° 58'N.on the lat.arc; 12° 26'W.on the decl.arc; and determine a meridian with the solar at the cor.of secs.5,6,7, and 8. Thence I run

N.89° 39'E.on random line bet.secs.5 and 8

40.00 Set temp.g sec.cor.

48.00 Intersect N.and S.line 23 lks.N.of the cor.of secs.4,5, 8 and 9. Thence I run

Subdivision of T.33 S., R.18 W.

Chains.	S.89° 49'W.on true line betsecs.5 and 8,
	Descending through medium dense cedars and nut pine.
3.90	Ravine, 75 lks.wide, 50 ft.deep, drains S.30°E.
	Ascend on SE.slope.
20.00	Top of granite knoll, about 300 ft.high, bears S.about 35.00 chs.
26.40	Top of spur on N.slope, extends NW .
	Descend.
30.90	Ravine about 75 lks.wide and 75 ft.deep, heads NW. about 15.00 chs.; drains SE.
	Ascend NE. and E.slope of main ridge over broken ridges and ledges.
40.04	Set a granite stone 16 x 12 x 5 ins., 11 ins.in the ground for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which A pinon pine, 12 ins.dis., bears N.10°E. 8 lks. dist., mkd. $\frac{1}{4}$ S 5 B T A pinon pine, 8 ins.dis., bears S.81°E.35 lks. dist., mkd $\frac{1}{4}$ S 8 B T
45.00	Top of ridge, 100 ft.above the $\frac{1}{4}$ sec.cor., bears N.and S. Descend over W.and northerly slopes of broken ridges.
80.08	The cor.of secs.5,6,7, and 8. Land, mountainous and broken. Soil, gravelly and stony; 3d and 4th rate. Undergrowth sage and native grasses. Timber, medium dense cedar and nut pine. Mountainous land 80.08 chs.
40.00	S.89°51'W.on random line betsecs.6 and 7, Set temp. $\frac{1}{4}$ sec.cor.
78.10	Intersect W.bdy.of Tp. 16 lks.S.of the cor.of secs.6 and 7, heretofore described. Thence I run N.89° 58'E.on true line betsecs.6 and 7, Over N.and NW.slope of high ridge; through scattering cedar and medium dense sage undergrowth.
16.50	Begin ascent of knoll, bears N.and S.

Subdivision of T.33 S., R.18 W.

- Chains
26.00 Top of knoll, about 200 ft. high, bears NW. and SE.
Descend over NE.slope.
- 38.10 Set a trachyte stone 18 x 12 x 10 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N.face; from which A pinon pine 6 ins.dia.bears N. $16^{\circ} 30'W$.156 lks. dist., mkd. $\frac{1}{4}$ S 6 B T
A cedar 10 ins.dia:bears S. $55^{\circ}E$. 13 lks.dist. mkd. $\frac{1}{4}$ S 7 B T
- 40.75 Head of ravine, which drains NW., at E.foot of knoll.
Ascend.
- 48.75 Top of ridge, 100 ft. high, bears NE. and SW.
Descend over NE.slope.
- 67.40 Ravine , drains N. $10^{\circ}E$. Trail in bottom bears NE. and SW.
Ascend NW.slope of high ridge.
- 78.10 The cor.of secs.5,6,7, and 8.
Land, mountainous on N.and NW.slopes of high ridges, descending into Hamblin Valley.
Soil, gravelly and stony; 3d and 4th rate.
Timber, cedar, medium dense sage undergrowth.
Mountainous land 78.10 chs.
- Aug.20, 1912: At this cor.I set off $12^{\circ} 24'N$.on the decl. arc; and at 0 h 3m p.m.l.m.t., observe the sun on the meridian; the resulting lat.is $37^{\circ} 58'N$., which is the proper lat.nearly.
-
- N. $0^{\circ}13'W$.on random line betsecs. 5 and 6
40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.48 Intersect N.bdy.of Tpi 2 lks.W. of the cor.of sections, 5 and 6, heretofore described.
Thence I run
S. $0^{\circ} 8'E$.on true line betsecs.5 and 6,
Ascending over broken ridges at NW.foot of high mountain through medium dense cedars, nut pine, and sage undergrowth; gravelly and stony ground.

Subdivision of T. 33 S., R. 18 W.

- ains.
.00 Ravine, 75 lks.wide, 50 ft.deep, drains NW.
.50 Top of ridge, about 100 ft.high, bears N.70°W. and S.70°
E. Descend.
.80 Old location monument of the King of the West lode claim
bears W.about .6.00 cgs.
.50 Ravine, about 100 lks.wide and 75 ft.deep, drains NW.
.48 Set a trachyte stone 16 x 7 x 5 ins., 11 ins.in the
ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face;from which
A cedar 6 ins.dia.bears S.66°W.15 lks.dist.
mkd. $\frac{1}{4}$ S 6' B T
A cedar 8' ins.dia.bears N.9° E.232 lks.dist.
mkd. $\frac{1}{4}$ S 5' B T
.50 Ravine, about 125 lks.wide, and 75 ft.deep, heads SE.
about 20.00 chs., drains NW.
Ascend.
.00 Top of spur, about 200 ft.above the $\frac{1}{4}$ sec.cor., extends
NW.about 15.00 chs.
Descend.
.30 Ravine about 100 lks.wide, and 50 ft.deep, heads S.80°E.
about 20.00 chs., drains NW.
Ascend.
.48 The cor.of secs.5,6,7, and 8.
Land, low ridges and high mountains on S.side of Hamblin
Valley.
Soil, gravelly and stony; 2d and 3d rate.
Timber, cedar and nut pine;
Undergrowth sagebrush.
Mountainous land 80.48 chs.

This township lies mostly in a range of mountains which crosses the township in a general northwesterly and southeasterly direction; it extends into Hamblin Valley on its northwest, and lies within the Escalante Desert on its southeast. The mountains are cut with numerous hollows and ravines which drain principally into the Desert Valley.

The soil of the southeastern part, within the Escalante Desert, and of the wide hollows throughout the township is of a rich clay and sandy loam; on the slopes and low ridges the soil is rich, but it is generally gravelly and stony, and of 2d and 3d rate, with portions on the high ridges classed as 4th rate.

Within the Desert Valley the land is covered with native grasses and shrubbery. There is an abundance of good native pine and cedar timber throughout the mountainous portions of the township, suitable for fuel and for fencing; and on the high range adjoining the Hamblin Valley there are a few scattering trees of yellow pine, suitable for saw timber.

There are no streams, lakes, or other bodies of water in the township; but there are several small springs which afford watering places for horned stock and horses running at large, and for flocks of sheep herded within this and adjoining townships.

Traces of silver and copper ores were found in sec. secs. 5, 6, and 8; traces of lead in secs. 17 and 18, and traces of gold at the cor. of secs. 17, 18, 19, and 20. I return as mineral lands W. $\frac{1}{2}$ sec. 5; E. $\frac{1}{2}$ sec. 6; W. $\frac{1}{2}$ sec. 8; W. $\frac{1}{2}$ of NW $\frac{1}{4}$, and $\frac{1}{2}$ of SW $\frac{1}{4}$ sec. 17; E. $\frac{1}{2}$ of NE $\frac{1}{4}$ and E. $\frac{1}{2}$ of SE $\frac{1}{4}$ sec. 18; NE $\frac{1}{4}$ of NE $\frac{1}{4}$ sec. 19, and NW. $\frac{1}{2}$ of NW $\frac{1}{4}$ of sec. 20.

There is an old vacated cabin, with corral and pasture adjoining in sec. 9, known as Tilley's Ranch, formerly occupied by a Mr. Tilley.

There is one settler in each of secs. 11, 14, and 31; and two settlers in section 32. These settlers are

General Description T.33 S., R.18 W.

located at springs where the waters are stored in tanks or small reservoirs and used for the watering of stock and sheep.

Henry Houchen in NW $\frac{1}{4}$ Sec.11, has cabin, water tank, pipes, and watering troughs, of the value of about \$175.00.

Henry Elliker, in NE $\frac{1}{4}$ sec.14, has cabin, water tank, pipes, and watering troughs, of the value of about \$200.00.

Dave Francis, in SW $\frac{1}{4}$ sec.32, has a cabin, corral, stables, water pipe, and watering troughs, of the value of about \$150.00.

Joseph Comerilh in SW $\frac{1}{4}$ sec.32, has a cabin, corral, stables, water pipe, and watering troughs, of the value of about \$250.00.

Peter B.Fife in NE $\frac{1}{4}$ sec.31, has a cabin, corral, and small pasture, stables, granary, and cellar, and watering troughs, of the value of about \$350.00.

The land throughout the township is principally agricultural in character, and most valuable for grazing.

Matthew H. Dally
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and fixing the lines and corners described in the foregoing field notes of the survey of Subdivision T.33 S., of R.18 W., of the Salt Lake Base and Meridian, during the respective capacities in which they acted:

Hillman Dalley, Chairman.
Maeser Dalley, Chairman.
Wasson Dalley, Moundman.
Hillman Dalley, Moundman.
Maeser Dalley, Axman.
Wasson Dalley, Axman.
Wasson Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all parts or portions of the Subdivision of T.33 S., of R.18 W., of the Salt

Base and meridian, S T A T E of U T A H, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for UTAH.

Hillman Dalley, Chairman.
Maeser Dalley, Chairman.
Wasson Dalley, Moundman.
Hillman Dalley, Moundman.
Maeser Dalley, Axman.
Rulon Dalley, Axman.
Rulon Dalley, Flagman.

scribed and sworn to before me this 31st.
 day of August, 1912. }



My Commission Expires
May 20th, A. D. 1913

Mayhew H. Dalley
Notary Public, Iron County, Utah

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivision of T.33 S., R.18 W.

of the Salt Lake
Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 10th day of September, 1912. }

Chas. A. Adams
Clerk of District Court.

APPROVAL. Fifth Judicial District
State of Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 33 South, Range No. 18 West, of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley,
under his contract No. 241, dated April 11, 19 01, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Russell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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Filed
May 16/10
MHD

H.

FIELD NOTES

RETRACING
OF THE SURVEY OF THE

S U B D I V I S I O N

of

Township No. 36 South, Range No. 9 West,

of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

Matthew H. Dally, United States Deputy Surveyor,
for his Contract No. 241, dated April 11th, 1901, #857
Survey commenced August 16th, 1910, #857
Survey completed August 17th, 1910, 189

LAW 9-27-78 ✓

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,

Chainman.

Edward H. Parry,

Chainman.

James A. Tweedie

Moundman.

Edward H. Parry,

Moundman.

James A. Tweedie,

Axman.

Maeser Dalley,
Maeser Dalley.,

Axman.
Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 36 South, Range 9 West.

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31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Hillman Dalley

and Edward H. Parry

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will measure distances over even and uneven ground, and plumb the tally pins, either by striking or dropping them, so as to report the true distances to all movable objects, and the true lengths of all lines that we may be required, to the best of our skill and ability, and in accordance with instructions given us in the subdivision of Tp. No. 36 S. of R. No. 9. W. of the Salt Lake Base Meridian.

Hillman Dalley
Edward H. Parry

Subscribed and sworn to before me this 8th.

day of August, 1910. #4

Witness My Commission Expert
Hillman Dalley Aug 8th A. D. 1910

Levora G. Dalley
Notary Public, Iron County, Utah

We, James A. Tweedie

and Edward H. Parry

do solemnly swear that we will well and truly perform the duties of mounthmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the subdivision of Tp. No. 36 S. of R. No. 9. W. of the Salt Lake Base Meridian.

James A. Tweedie
Edward H. Parry

Subscribed and sworn to before me this 8th.

day of August, 1910. #4

Witness My Commission Expert
Hillman Dalley Aug 8th A. D. 1910

Levora G. Dalley
Notary Public, Iron County, Utah

We, James A. Tweedie

and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other stations, according to instructions given us, to the best of our skill and ability, in the subdivision of Tp. No. 36 S. of R. No. 9. W. of the Salt Lake Base and Meridian.

James A. Tweedie
Maeser Dalley

Subscribed and sworn to before me this 8th.

day of August, 1910. #4

Witness My Commission Expert
Hillman Dalley Aug 8th A. D. 1910

Levora G. Dalley
Notary Public, Iron County, Utah

I,

Hasser Dalley do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the subdivision of Tp. No. 36 S. of R. No. 9. W. of the Salt Lake Base and Meridian.

Hasser Dalley

Subscribed and sworn to before me this 8th.

day of August, 1910. #4

Witness My Commission Expert
Hillman Dalley Aug 8th A. D. 1910

Levora G. Dalley
Notary Public, Iron County, Utah

Retracement of Subdivision of T.36 S., R.9 W.

Chains.

Retracement commenced August 16, 1910, and executed with the same Instrument used in the Retracement of the East Boundary of this Tp., and described in the Field Notes thereof.

I know the Instrument to be in adjustment from complete test made August 13 and 14, 1910, at the cor. of Tps. 36 and 37 S., Rs. 9 and 10 W., and recorded in the Field Notes of corrective retracement and Resurvey of West bdy. of Tp. 36 S., R. 9 W.

August 16, 1910: At the cor. of secs. 7, 12, 13, and 18, on W. bdy. of Tp., which is a volcanic stone 12x12x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

I set off $37^{\circ}42'$ E. on the Lat. arc; $13^{\circ}55'$ N. on the decl. arc; and at 3h⁴m a.m., l.m.t., determine a meridian with the solar.

Thence I run

East on retracement line bet. secs. 7 and 18.

30.19 Fall 1 lk. S. of the old $\frac{1}{2}$ sec. cor. bet. secs. 7 and 18, which is a volcanic stone 20x5x5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

70.21 The cor. of secs. 7, 8, 17 and 18, which is a volcanic stone 10x8x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore East, 70.21 chs.
Note:-The topography practically agrees with the original notes thereof.

Chains.

East on retracement line bet.secs.3 and 17.

33.87 Fall 3' lks.S.of the old $\frac{1}{4}$ sec.cor.bet.secs.3 and 17,
which is a volcanic stone 10x18x6 ins.above ground,
firmly set and marked with $\frac{1}{4}$ on N.face;from which

An aspen 10 ins.dia., bears N. $0^{\circ}30'$ E.51 lks.dist.,
mkd. $\frac{1}{4}$ S 8' B T.

An aspen 16 ins.dia., bears S. $76^{\circ}W$.36 lks dist.,
mkd. $\frac{1}{4}$ S 17' B T.

The course of this line is therefore N. $89^{\circ}57'E.$,
33.87 chs..

Note:-No change in topography from that given in the
original notes thereof.

From the cor.of secs.7,8,17 and 18, heretofore described
I run

N. $0^{\circ}3'W$.on retracement line bet.secs.7 and 8.

40.06 Fall 21 lks.E.of the old $\frac{1}{4}$ sec.cor.bet.secs.7 and 8,
which is a volcanic stone 10x8x6 ins.above ground,
firmly set and marked and witnessed as described by
the Surveyor General.

80.10 Fall 43 lks.E.of the old cor.of secs.5,6,7 and 8,
which is a volcanic stone 7x6x5 ins.above ground,
firmly set and marked and witnessed as described by
the Surveyor General.

The course of this line is therefore N. $0^{\circ}21'W$. 80.10
chs.

Note:-There is no change in topography from that

Retracement of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

given in the original notes.

August 16, 1910: At this cor. at the noon hour the sky is overcast and lat. observations are impossible.

East on retracement line bet. secs. 5 and 8.

39.76 Fall 1 lk. N. of the old cor. of secs. 5, 8, and 9, which is a volcanic stone 10x5x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

79.52 Fall 1 lk. N. of the old cor. of secs. 4, 5, 8, and 9, which is a volcanic stone 10x5x5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore, E. 79.52 Chs.

Note:-There is no change in topography from that given in the original notes.

East on retracement line bet. secs. 4 and 9.

39.92 Fall 1 lk. S. of the old $\frac{1}{4}$ sec. cor., which is a volcanic stone 12x12x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

79.80 Fall 1 lk. N. of the old cor. of secs. 3, 4, 9 and 10, which is a volcanic stone 14x10x5 ins. above ground, firmly set and marked and witnessed as described by

Chains.

the Surveyor General.

The course of this line is therefore East, 79.80 chs.

Note:-There is no change in topography from that given in the original notes.

August 16, 1910.

August 17, 1910: At 8h 4m a.m., l.m.t., I set off $37^{\circ}43'$ N.on the Lat.arc; $13^{\circ}36'$ N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.3,4,9 and 10 heretofore described.

Thence I run

East on retracement line betsecs.3 and 10.

39.86 Fall 1 lk.S. of the old $\frac{1}{4}$ sec.cor.betsecs.3 and 10, which is a volcanic stone 7x6x5 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General, except that the mound of stone has been thrown down; I raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N.of cor.

79.76 The cor.of secs.2,3,10 and 11, which is a volcanic stone 6x6x5 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General. The course of this line is therefore East, 79.76 chs. Note:-There is no change in topography from that given in the original notes.

Retracement of Subdivision of T.36 S., R.9 W.-Continued.

Chains	
	S.0°1'E.on retracement line bet.secs.10 and 11.
39.96	Fall 6' lks.E.of the old 1/4 sec.cor.bet.secs.10 and 11, which is a volcanic stone 10x10x5 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General.
79.90	Fall 11 lks.E.of the old cor.of secs.10,11,14 and 15, which is a volcanic stone 10x6x4 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General. The course of this line is therefore S.0°4'W., 79.90 chs.
	Note:-There is no change in topography from that given in the original notes.
<hr/>	
	S.0°1'N.on retracement line bet.secs.14 and 15.
39.94	Fall 4' lks.E.of the old 1/4 sec.cor.bet.secs.14 and 15, which is a volcanic stone 16x8x6 ins.above ground,firmly set and marked and witnessed as described by the Surveyor General.
79.86	Fall 7' lks.E.of the old cor.of secs.14,15,22 and 23, which is a red sandstone 10x10x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General. The course of this line is therefore S.0°2'W., 79.86 chs.
	Note:-There is no change in topography from that given in the original notes.

Chains.

August 17, 1910: At this cor. I set off $13^{\circ}32'N.$ on the decl. arc; and at 0h $\frac{1}{4}$ m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}41'N.$, which is the proper lat. nearly.

East on retracement line bet. secs. 14 and 23.

39.90 The old $\frac{1}{4}$ sec. cor. bet. secs. 14 and 23, which is a lava stone 7x6x5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

79.90 Fall 1 lk.N. of the old cor. of secs. 13, 14, 23 and 24, which is a volcanic stone 12x6x5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore East, 79.90 chs.

Note:-There is no change in topography from that given in the original notes.

East on retracement line bet. secs. 13 and 24.

39.94 Fall 1 lk.S. of the old $\frac{1}{4}$ sec. cor. bet. secs. 13 and 24, which is a volcanic stone 8x6x5 ins. above ground, firmly set and marked and witnessed as described by

Retracement of Subdivision of T.36 S., R.9 W.-Continued.

Chains

79.86

the Surveyor General.

Fall 1 lk.N.of the old cor.of secs.13 and 24, on the
East bdy.of the Tp.herefore described.

The course of this line is therefore East, 79.86 chs.

Note:-No change in topography from that given in
the original notes of this line.

August 17, 1910.

Mayhew H. Dally
U.S. Deputy Surveyor.

Volume

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and retracing the lines and corners described in the foregoing field notes of the survey of the Subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and Meridian, during the respective capacities in which they acted:

Hillman Dalley, Chairman.
Edward H. Parry, Chairman.
James A. Tweedie, Moundman.
Edward H. Parry, Moundman.
James A. Tweedie, Axman.
Maeser Dalley, Axman.
Maeser Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all parts or portions of the Subdivision of Tp. No. 36 S. of R. No. 9 W.

of the Salt
Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for the State of Utah.

Hillman Dalley, Chairman.
Edward H. Parry, Chairman.
James A. Tweedie, Moundman.
Edward H. Parry, Moundman.
James A. Tweedie, Axman.
Maeser Dalley, Axman.
Maeser Dalley, Flagman.

scribed and sworn to before me this 18th.

of October, 1910, #.



My Commission Expires
May 16th, A. D. 1911.

Levora C. Dalley
Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of Township No. 36 S. of R. No. 9 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 10th day of May, 1912. { FSW

████████
O SEAL O
████████

Lehman D. Adams
Clerk of District Court.
5th Judicial District,
Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913

The foregoing field notes of the survey of retracement of subdivisional lines in Township No. 36 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah.

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, xxx, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements surveys they describe, are hereby approved.

Thomas D. Howell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-374

Filed May 16/2
M.W.B.

1

CORRECTIVE
FIELD NOTESTo Book "I" Original Notes
RETRACEMENT AND RE-
OF THE SURVEY OF THE

WEST BOUNDARY

of

Township No. 36 South, Range No. 9 West,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11th. 1901, #1859#

Survey commenced August 13th. 1910, #1859#

Survey completed August 15th. 1910. #1859#

Point B.
 R.R.C. 2 - 32 - 43 - Long
 Reversing 2 - 11 - 88 - High

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley, Chainman.

Hillman Dalley, Chainman.

Edward H. Parry,

Edward H. Parry, Chainman.

James A. Tweedie,

James A. Tweedie, Moundman.

Edward H. Parry,

Edward H. Parry, Moundman.

James A. Tweedie,

James A. Tweedie, Axman.

Maeser Dalley,

Maeser Dalley, Axman.

Maeser Dalley,

Maeser Dalley, Flagman.

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Volume

#

R0374

BOOK A-374

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Edward H. Parry
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
the W. Bdy. of Tp. No. 36 S. of R. No. 9 W.
of the Salt Lake Base and Meridian in the State of Utah

Hillman Dalley, Chainman.
Edward H. Parry, Chainman.

Subscribed and sworn to before me this 8th.
day of Aug. u. s. t, 1910. ###



My Commission Expires

May 16th. 1911.

Sessora G. Dalley

Notary Public, Iron County, Utah.

WE, James A. Tweedie and Edward H. Parry
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
the W. Bdy. of Tp. No. 36 S. of R. No. 9 W.
of the Salt Lake Base and Meridian in the State of Utah

James A. Tweedie, Moundman.
Edward H. Parry, Moundman.

Subscribed and sworn to before me this 8th.
day of Aug. u. s. t, 1910. ###



My Commission Expires

May 16th. 1911.

Sessora G. Dalley

Notary Public, Iron County, Utah.

WE, James A. Tweedie and Maeser Dalley
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners,
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
the W. Bdy. of Tp. No. 36 S. of R. No. 9 W.
of the Salt Lake Base and Meridian in the State of Utah

James A. Tweedie, Axman.
Maeser Dalley, Axman.

Subscribed and sworn to before me this 8th.
day of Aug. u. s. t, 1910. ###



My Commission Expires

May 16th. 1911.

Sessora G. Dalley

Notary Public, Iron County, Utah.

I, Maeser Dalley, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
corrective retracement and re-
survey of the W. Bdy. of Tp. No. 36 S. of R. No. 9 W.,
of the Salt Lake Base and Meridian in Utah

Maeser Dalley, Flagman.

Subscribed and sworn to before me this 8th.
day of Aug. u. s. t, 1910. ###



My Commission Expires

May 16th. 1911.

Sessora G. Dalley

Notary Public, Iron County, Utah.

Corrective Retracement and Resurvey of

West Boundary of T.36 S., R.9 W.

Chains.

Retracement commenced August 13, 1910, and executed with a W. and L.E. Gurley Light Mountain Solar Transit, No. 31, provided with a R.M. Jones double lat.arc., and reversible level bubble.

The horizontal limb is provided with two double verniers, placed opposite to each other, which read to single minutes of arc; the smaller and larger lat.arc.s read with verniers to single minutes and to ten seconds of arc, respectively.

The Instrument was examined, tested on the true meridian, at Salt Lake City, Utah, found correct, and was approved by the Surveyor General, for Utah, July 27, 1901,

I examine the adjustments of the Transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during the a.m. and p.m., hours, with a meridian determined by observation on Polaris, I proceed as follows:

August 13, 1910: At the cor. of Tps. 36 and 37 South, Rs. 9 and 10 W., which is a sandstone 18x12x4 ins. above ground, in a mound of stone, marked and witnessed as described by the Surveyor General., Lat. $37^{\circ}38'11''$ N., longitude $112^{\circ}52'36''$ W.; I set off $37^{\circ}38'N.$ on the Lat. arc; $14^{\circ}46'N.$ on the decl. arc; and at 2h 5m p.m., l.m.t., I determine a meridian with the solar and mark a point thereon on a stone set firmly in the ground 5.00 chs. N. of the cor.

At 10h 5.6m p.m., l.m.t., I observe Polaris at Eastern Elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a

Corrective Retracement and Resurvey of
West Boundary of T.36 S., R.9 W.-Continued.

Chains.

tack in a wooden plug driven firmly in the ground 5.00
chs.N.of my station.

August 13, 1910.

August 14, 1910: At 7h 35m a.m., l.m.t., I lay off the
Azimuth of Polaris $1^{\circ}29'$ to the W. and mark the meridian
thus determined by cutting a cross (X) on the stone
already set 5.00 chs.N. of the cor., on which the
meridian falls 0.33 ins.E. of the mark determined by
the solar.

At 8h 5m a.m., l.m.t., I set off $37^{\circ}38'$ N. on the Lat.
arc; $14^{\circ}32'$ N. on the decl arc; and mark a point in the
meridian determined with the solar by a small groove
cut on the stone already set 5.00 chs.N. of my station;
this mark falls 0.33 ins.E. of the meridian established
by Polars observation.

The Solar Apparatus by p.m., and a.m., observations
define position for meridian respectively about $0'20''$
W. and $0'17''$ E. of the meridian established by Polaris
observation; therefore I conclude the adjustments of
the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 35m a.m.,
l.m.t., is N. $15^{\circ}50'$ W.; the angle thus determined gives
the magnetic decl. $15^{\circ}50'$ E..

August 14, 1910.

Corrective Retracement and Resurvey of
West Boundary of T.36 S., R.9 W.-Continued.

Chains.

Note:-Before commencing Corrective Survey of the sub-division of this Tp. I proceed to retrace a part of the W.bdy.of the Tp.as follows:

August 15, 1910: At 8h 4m a.m., l.m.t., I set off $37^{\circ}38'N.$ on the Lat.arc; $14^{\circ}14'W.$ on the decl.arc; and determine a meridian with the solar at the cor.of Tps.36 and 37 S., Rs.9 and 10 W., heretofore described.

Thence I run

$N.0^{\circ}22'W.$ on retracement line bet.the S.halves of secs. 31 and 36.

40.00 Fall 26 lks.W.of the $\frac{1}{4}$ sec.cor.betsecs.31 and 36, heretofore described in original retracement of this line.

See orig.
notes book
"I" page 8.

I continue my line retracing resurvey line bet.the N. halves of secs.31 and 36.

75.09 Fall 48 lks.W.of the Witness cor.to cor.of secs.25 and 36, established by me in resurvey originally made, and described in the field Notes thereon.

62.97 Fall 53.lks.W.of the point for cor.of secs.25 and 36, which falls in a deep chasm and cannot be set.

Note:-The course of this mile is therefore N.; and the distance of the S. $\frac{1}{2}$ mile is 40.00 chs.; and of the N. $\frac{1}{2}$ mile 42.97 chs.

Note:-There is no change in topography from that given in the original retracement and resurvey.

August 15, 1910: At the WC for cor.secs.25 and 36, at the noon hour the sky is overcast and solar observations are impossible.

Corrective Retracement and Resurvey of
West Boundary of T.36 S., R.9 W.-Continued.

Chains.

N. $0^{\circ}22'$ W.on corrective resurvey line along the E.bdy.

Sec.25.

12.85 Fall 8 lks.W. of WC to cor.of secs.25 and 36, set in
original resurvey of this bdy.

See o:
notes
"I", p

Note:-This WC is on top of ledges on steep N.slope of
chasm about 300 ft.above point for cor.secs.25 and 36,
and as the mound of stone witnessing the same has
rolled away, I decide that it is unsafe and therefore
re-establish the same as follows:

15.56 The point for WC falls on a ledge 8 ft.wide and 100
ft.high, on which I cut a cross (X) at exact cor.point
10 lks.E.of my line for Witness corner to cor.of secs.
25 and 36,mkd.WC NE of cross (X)with 5 notches on N.
and 1 notch on S.side of cross (X) ;from which

A pinion pine 10 ins dia.,bears N. $5^{\circ}W.$, 5 lks.dist.,
mkd. WC T.36 S R 10 W S '25 B.T.

No other trees within limits;raise a mound of stone
3 ft.base 2 ft.high W. of Witness corner.

43.05 Fall .28 lks.W.of the $\frac{1}{4}$ sec.cor.on E.bdy.of sec.25,
set in original resurvey of this line and described
in the field notes thereof.

77.38 Fall 49 lks.W.of the closing cor.of secs.19 and 30.

35.94 Fall 55 lks.W.of the cor.of secs.24 and 25 set by me
in original resurvey of this line, and described in
the field notes thereof.

Note:-The course of this mile is therefore North;and
the distance 43.05 chs.on the S. $\frac{1}{2}$ mile, and 42.89 chs.
on the N. $\frac{1}{2}$ mile.

Note:-The topography on this mile is same as given in
original notes of resurvey thereof.

Corrective Retracement and Resurvey of
West Boundary of T.36 S., R.9 W.-Continued.

Chains.

N.0°22' W.on Corrective Resurvey line along the East
bdy.sec.24.

42.97

Fall 28 lks.W.of the $\frac{1}{4}$ sec.cor.betsecs.19 and 24,
which is a volcanic stone 12x10x6 ins.above ground,
firmly set and marked and witnessed as described by
the Surveyor General.

See orig.
notes book
"I" pagell.

The course of this $\frac{1}{2}$ mile is therefore North 42.97
chs.

Note:-There is no change in topography from that
given in the original resurvey of this line.

August 15, 1910.

Matthew H. Dally
U.S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

I list of the names of the individuals employed by Mayhew H. Dalley,

, United States Deputy Surveyor, to assist in running, measuring, and corrective retracement and re-
the lines and corners described in the foregoing field notes of the survey of the W. Bdy. of

No. 36 S. of R. No. 9 W.

Salt Lake Base and Meridian, State of Utah,
the respective capacities in which they acted:

Hillman Dalley, Chainman.

Edward H. Parry, Chainman.

James A. Tweedie, Moundman.

Edward H. Parry, Moundman.

James A. Tweedie, Axman.

Maeser Dalley, Axman.

Maeser Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley,

corrective retracing and re-
, United States Deputy Surveyor, in surveying all

parts or portions of the W. Bdy. of Tp. No. 36 S. of R. No. 9 W.

of the Salt Lake
and Meridian meridian, State of Utah, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
is in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
monuments established, according to the instructions furnished by the United States Surveyor
for the State of Utah.

Hillman Dalley, Chainman.

Edward H. Parry, Chainman.

James A. Tweedie, Moundman.

Edward H. Parry, Moundman.

James A. Tweedie, Axman.

Maeser Dalley, Axman.

Maeser Dalley, Flagman.

dated and sworn to before me this 18th.

of October, 1910, ###

Senora G. Dalley



My Commission Expires

May 16th. 1911.

Notary Public, Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of 11th, day of April, A.D. 1901, ###, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the W. Bdy. of Tp. No. 36 S. of R. 9 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me
this 20th, day of May, 1912. 1912

SEAL
XXXXXX

Chas D. Adam
Clerk of District Court.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of corrective survey of the retracement and re-survey of the West Boundary of Township No. 36 South, of Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley,
under his contract No. 241, dated April 11, 1901, xxx, having been critically examined, and the necessary corrections and explanations made, the said field notes and surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office.

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BOOK A-374

J.

FIELD NOTES

OF THE SURVEY OF THE

S. U. R. D. I. V. I. S. I. O. N.

O. P.

Township No. 36. South

Range No. 9. West

Of the Salt Lake Range and Meridian,

State of Utah,

AS SURVEYED BY

Matthew H. Bailey, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11th, 1901.

Survey commenced September 2, 1907.

Survey completed September 16, 1907.

6-121
Garrison 24-51-37 coming 80-85 ✓
60 1-85-83 ✓

NAMES AND DUTIES OF ASSISTANTS.

Hillman Ballay Chairman.

John A. Hilliker Chairman.

Macser Ballay, Mountain.

John H. Lunt, Mountain.

Earl Cover, Axman.

John H. Lunt, Axman.

Walter Lunt, Flagman.

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and John A. Elliker

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the fractl. subdivision of T. 36 S., R. 9 W. of the Salt Lake Base and Meridian, Utah.

Hillman Dalley, Chainman
John A. Elliker, Chainman

Subscribed and sworn to before me this 24th day of August 1907. }
My Commission Expires May 10th, A. D. 1911. }
SEAL My Commission Expires May 10th, A. D. 1911.

Senora C. Dalley
Notary Public.

WE, Maeser Dalley and John H. Lunt

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the fractl. Subdivision of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Maeser Dalley, Moundman
John H. Lunt, Moundman

Subscribed and sworn to before me this 24th day of August 1907. }
My Commission Expires May 10th, A. D. 1911. }
SEAL My Commission Expires May 10th, A. D. 1911.

Senora C. Dalley
Notary Public.

WE, Earl Gower and John H. Lunt

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the fractl. Subdivision of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Earl Gower, Axman
John H. Lunt, Axman

Subscribed and sworn to before me this 24th day of August 1907. }
My Commission Expires May 10th, A. D. 1911. }
SEAL My Commission Expires May 10th, A. D. 1911.

Senora C. Dalley
Notary Public.

I, Walter Lunt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the fractl. Subdivision of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Walter Lunt, Flagman

Subscribed and sworn to before me this 24th day of August 1907. }
My Commission Expires May 10th, A. D. 1911. }
SEAL My Commission Expires May 10th, A. D. 1911.

Senora C. Dalley
Notary Public.

Subdivision of T. 36 S., R. 9 W.

Survey commenced September 2, 1907, and executed with the same instrument used in the retracement of the east boundary of this township, and described in the field notes thereof.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, I return to the meridian established at the cor.of Tps.36 and 37 S., R. 9 W., heretofore described, on August 28, 1907.

September 2, 1907: At 7 h.59 m.a.m.l.m.t.I set off $37^{\circ} 38'$ N.on the lat.arc; $8^{\circ} 13'$ N.on the decl.arc; and determine a meridian with the solar at the above described Tp.cor., finding it gives the same meridian as before and adjustments correct.

September 2, 1907: At 9 h. 59 m.a.m.l.m.t.I set off $37^{\circ} 39'$ N.on the lat.arc; $8^{\circ} 11'$ N.on the decl.arc; and determine a meridian with the solar at the witness cor.to cor.of secs.25,26,35, and 36, which is a volcanic stone 9 x 12 x 6 ins.above ground, firmly set and marked and witnessed as described by the surveyor general. This cor.is 72.73 chs.W.of the cor.of secs.25 and 36 on E. bdy.of Tp., as determined by previous retracement made by me, the $\frac{1}{4}$ sec.cor.being found in place.

Note: On account of there being no cor.of secs.1,2,35, and 36 on S.bdy.of Tp., and practically all of the line bet:secs.35 and 36 being in the breaks of Cedar Canon and impossible to chain or measure by triangulation, I deem it advisable to complete the line betsecs.25 and 36 first; then to run south on a random line and north on a true line by offsets betsecs.35 and 36; there-

Subdivision of T. 36 S., R. 9 W.- Continued.

Chains.	<p>fore I destroy all traces of this witness corner and run from this point,</p> <p>West on a true line completing the line bet. secs. 25 and 36,</p> <p>Over mountainous land; through heavy timber. Descending over steep west slope of ridge. Measurements counted from E.bdy.of Tp.</p> <p>79.00 Foot of steep descent about 250 ft. below point for witness cor., bears N. and S.</p> <p>Descend gradually.</p> <p>80.00 Set a trachyte stone 14 x 12 x 6 ins., 9 ins.in the ground, for cor.of secs. 25 and 36, marked with 1 notch on S. and 1 notch on E.edges; from which</p> <p>A spruce 18 ins.dia., bears N.$80\frac{1}{2}$° E. 37 lks.dist.</p> <p>mkd. T 36 S R 9 W S 25 B T</p> <p>A spruce 10 ins.dia., bears S.64° E. 53 lks.dist.</p> <p>mkd. T 36 S R 9 W S 36 B T</p> <p>Note: I mark this cor.for cor.of secs. 25 and 36 only, on account of length of E.bdy.of sec.36</p> <p>Land, mountainous.</p> <p>Soil, gravelly and stony; 3rd and 4th rates.</p> <p>Timber, pine, spruce, and balsam.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land 7.27 chs.</p> <hr/> <p>S.0° 01'E.on random line bet.secs.35 and 36,</p> <p>8.58 Top of breaks of Cedar Canon.</p> <p>Set temp. witness point</p> <p>To pass around head of breaks I offset as follows:</p> <p>East 16.32 chs.; then on offset line,</p> <p>S.0° 01'E.40.00 chs. (Counted from sec.cor.</p> <p>Set temp. witness cor.to $\frac{1}{4}$ sec.cor.</p>
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Subdivision of T. 36 S., R. 9 W.- Continued.

- Chains. South $0^{\circ} 1'E$. (Counted from sec.cor.)
- 83.60 Intersect S.bdy.of Tp. 7 lks.E.of the witness cor.to cor.of secs.1,2,35, and 36, heretofore described.
- September 2, 1907: At the noon hour the sky is overcast and solar observations are impossible.
- Thence I run
- N. $0^{\circ} 02'E$.on offset line betsecs.35 and 36,
- Along the top of breaks of Cedar Canon; through heavy timber.
- 43.60 Set a trachyte stone 18 x 12 x 6 ins., 12 ins.in the ground, for witness cor.to $\frac{1}{4}$ sec.cor., marked W C $\frac{1}{4}$ on W.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
- The true point for corner falls in the breaks of Cedar Canon and cannot be set.
- 75.02 Offset West 16.32 chs.to true line.
- Top of breaks of Cedar Canon bears N. $10^{\circ} W$. and SE.
- Set a trachyte stone 20 x 14 x 5 ins., 15 ins.in the ground for witness point, marked W P on W.face; from which
- A spruce 14 ins.dia., bears S. $83^{\circ} 45'E$. 17 lks.
dist., marked W P B T
- A spruce, 12 ins.dia., bears N. $3^{\circ} W$. 23 lks.dist.
marked W P B T
- Descend abruptly through heavy timber, along top of breaks of Cedar Canon.
- 82.60 Trail, bears NW. and SE.
- Foot of steep descent, bears NW. and SE.
- Descend gradually.
- 83.60 The cor.of secs.25 and 36,
- Land, mountainous.
- Soil , rocky; 4th rate.
- Timber, pine, balsam, spruce, and aspen.

Subdivision of T. 36 S., R. 9 W.- Continued.

Chains.

Mountainous or heavily timbered land 83.60 chs.

September 2, 1907.

September 3, 1907: At 7 h. 59 m.a.m.l.m.t. I set off $37^{\circ} 39' N.$ on the lat.arc; $7^{\circ} 51' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.25 and 36.

Thence I run

North $0^{\circ} 01'$ W.betsecs.25 and 26,

Over mountainous land; through heavy timber and scattering undergrowth.

Descend gradually.

4.25 Top of breaks of Cedar Canon, bears $N.30^{\circ}$ E. and S. 5° W.

Descend abruptly over NW.slope.

9.00 Head of ravine, 150 ft. below top of breaks, course NW.
Ascend.

18.00 Top of ridge, 100 ft. above head of ravine bears NW.
and SE.

Descend abruptly.

29.50 Creek 2 lks.wide, 1 inch deep, in bottom of ravine 200
ft.below ridge, course NW.

Ascend abruptly over ledges.

40.00 Point for cor.falls on stationary sandstone boulder, 3
 \times 3 \times 2 ft.above ground, on which I
Cut a cross (X) at the exact cor.point for $\frac{1}{4}$ sec.cor.
and mark $\frac{1}{4}$ on W.side of cross; from which
A white pine 8 insidia., bears $S.63^{\circ} 15'E.$ 56 lks.
dist., marked $\frac{1}{4}$ S 25 B T.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

A spruce 8 ins.dia., bears S.66° W.28 lks.dist.,
mkd. 1/4 S 26 B T.

44.20 Top of ridge 300 ft. above ravine bears E. and W.
Descend abruptly over ledges.

54.00 Creek 1 lk.wide 1 inch deep in ravine 200 ft. below
ridge, course W.
Ascend over ledges.

72.00 Top of ridge 250 ft. above ravine bears E. and W.
Descend abruptly over ledges.

77.00 Leave ledges bears E. and W.

80.00 Set a white sandstone 20x8x6 ins. 15 ins. in the ground,
for cor. of secs. 24 and 25, marked with 2 notches on S. and
1 notch on E.edges; from which

A birdseye pine 16 ins.dia., bears N.62° E.67 lks.
dist., mkd. T 36 S R 9 W S 24 B T.

A birdseye pine 24 ins.dia., bears S.58° E.56 lks.
dist., mkd. T 36 S R 9 W S 25 B T.

Land mountainous, exceptionally rough in breaks of Cedar
Canon.

Soil, rocky; 4th. rate.

Timber, pine, spruce, aspen and balsam.

Undergrowth, serviceberry and oak.

Mountainous or heavily timbered land, 80.00 chs.

September 3, 1907: At this cor. I set off 7047' " on the
decl. arc; and at 11h59m a.m., l.m.t., observe the sun on
the meridian; the resulting lat. is 37°40' N., which is
the proper lat. nearly.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	East on a random line bet. secs. 24 and 25.
40.00	Intersect $1/4$ sec. cor. bet. secs. 24 and 25, which is a volcanic stone $8 \times 10 \times 6$ ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
	The bearing trees are dead and partly decayed, therefore I destroy them and mark new bearing trees as follows:
	A spruce 16. ins. dia., bears N.60° E.31 lks.dist., mkd. $1/4$ S 24 B T..
	A spruce 12. ins. dia., bears S.80° $1/20$ E.85 lks.dist., mkd. $1/4$ S 25 B T..
	Thence run
	West on a true line bet. the west halves of Secs. 24 and 25.
	Over mountainous land; through scattering timber.
	Descend.
1.00	A spring bears S. about 30 lks.dist. and drains SW.
5.00	Top of breaks of Cedar Canon 150 ft. above $1/4$ sec. cor, bears NW and SE.
	Descend abruptly over broken ledges.
8.00	Bottom of ravine 300 ft. below top of breaks, course S.30° W.
	Ascend abruptly over broken ledges.
22.00	Point 60 lks. S. of perpendicular ledge 100 ft. high, which bears N.30° W. and NE.
24.40	Top of ridge 250 ft. above ravine bears NE and SW.
	Leave ledges bears NE and SW.
	Descend abruptly.
40.00	The cor. of secs. 24 and 25, 200 ft. below ridge.
	Land mountainous very rough being in breaks of Cedar Canon.
	Soil, rocky; 4th. rate.

Subdivision of T. 36 S., R. 9 W.- continued.

- Chains. Timber, pine, spruce and balsam.
Mountainous, or heavily timbered land 40.00 chs.
September 3, 1907.
- September 4, 1907: At 7 h. 59 m.a.m.l.m.t. I set off 37°
40'N.on the lat.arc; 7° 29' N.on the decl.arc, and
determine a meridian with the solar at the cor.of
secs.24 and 25,
Thence I run
N.0° 01'W.on a random line along W.bdy.sec.24,
Set temp. $\frac{1}{4}$ sec.cor.
Intersect the witness cor.to $\frac{1}{4}$ sec.cor.betsecs.23 and
24, which is a sandstone 6 x 6 x 6 ins.above ground
firmly set and marked and witnessed as described by
the surveyor general.
Intersect E. and W.line at the cor.of secs.13,14,23 and
24, which is a volcanic stone 5 x 12 x 6 ins.above
ground, firmly set and marked and witnessed as de-
scribed by the surveyor general.
Thence I run
S.0° 01'E.on a true line along W.bdy.sec.24,
Over mountainous land; through scattering timber.
Ascend.
Witness cor.above described, which I now destroy.
Top of breaks of Cedar Canon bears N.70° W. and S.70° E.
Descend abruptly over a series of broken ledges, from
30 to 200 ft.high.
Leave ledges bear N.80° W. and S.80° E.
Set a sandstone 18 x 8 x 8 ins., 12 ins.in the ground,
for $\frac{1}{4}$ sec.cor., mkd: $\frac{1}{4}$ on W.face; and raise a mound.of
stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
This cor.is about 500 ft.below top of breaks.

Subdivision of T. 36 S., R. 9 W.- Continued.

- Chains. Continue abrupt descent.
- 50.50 Head of ravine 200 ft. below $\frac{1}{2}$ sec.cor., course SW.
Ascend abruptly.
- 56.50 Top of ridge, 100 ft. above ravine, bears NE. and SW.
Descend abruptly.
- 61.00 Bottom of ravine 200 ft. below ridge, course SW.
Ascend abruptly.
- 72.40 Top of ridge, 150 ft. above ravine, bears E. and W.
Descend over ledges.
- 76.00 Bottom of ravine 250 ft. below ridge, course S.70° W.
Leave ledges bear N.70° E. and S.70° W.
Ascend abruptly.
- 80.32 The cor.of secs.24 and 25, 100 ft. above ravine.
~~57.12~~
~~33.72~~
Land, mountainous.
Soil, rocky; 4th rate.
Timber, pine, spruce, and balsam.
Mountainous or heavily timbered land 47.22 chs.
September 4, 1907: At the noon hour the sky is overcast
and solar observations are impossible.

September 4, 1907.

September 5, 1907: At 7 h. 59 m.a.m.l.m.t.I set off 37°
38'N.on the lat.arc; 7°-07'W.on the decl.arc; and de-
termine a meridian with the soln at the cor.of secs.
34 and 35 on S.bdy.of Tp., heretofore described.

Thence I run

N.0° 01'W.bet.secs.34 and 35,

Over mountainous land; through heavy timber and scat-
tering undergrowth.

Descend.

18.00 Spring branch, 3 lks.wide, 2 ins.deep, course NE.

25.00 Creek, 5 lks.wide, 3 ins.deep, in hollow, 250 ft.be-
low sec.cor., course N.20° W.

Subdivision of T. 36 S., R. 9 W.- Continued.

- Chains. Ascend.
- 27.50 Wash, 20 lks.wide, 6 ft.deep, course NW.
- 30.00 Top of ridge, 250 ft.above hollow, bears N.30° W. and S.30° E.
- Descend.
- 40.00 Point for $\frac{1}{4}$ sec.cor.falls on stationary sandstone boulder 6 x 3 x 1 $\frac{1}{2}$ ft. above ground, on which I cut a cross (X) at exact cor.point for $\frac{1}{4}$ sec.cor., mark $\frac{1}{2}$ on W.side of cross; from which
A spruce 8 ins.dia.bears N.84° 30'E. 48 lks.dist.
mkd. $\frac{1}{4}$ S 35 B T
- A red pine 6 ins.dia. bears N.29° 45'W. 186 lks.
dist., mkd. $\frac{1}{4}$ S 34 B T
- 45.50 Creek, 2 lks.wide, 2 ins.deep, in bottom of hollow, 50 ft.below $\frac{1}{4}$ sec.cor., course N.70° W.
- Ascend.
- 46.90 Wash, 70 lks.wide, 15 ft.deep, course SW.
- 59.70 Top of ridge, 300 ft.above hollow, bears E. and W.
- Descend.
- 64.25 Begin more abrupt descent, bears E. and W.
- 70.65 Creek, 1 lk.wide, 1 inch deep, in ravine 40 ft.deep,
course SW. Ascend.
- 76.00 Top of ridge, 100 ft.above ravine, bears E. and W.
- Descend.
- 80.00 Set a quartzite stone 16 x 12 x 8 ins., 11 ins.in the ground, for cor.of secs.26,27,34, and 35, marked with 1 notch on S. and 3 notches on E.edges; from which
A red pine 12 ins.dia., bears N.21° E. 65 lks.
dist., mkd.T 36 S R 9 W S 26 B T
- A red pine; 8 ins.dia., bears S.28° 30'E. 65 lks.
dist., mkd.T 36 S R 9 W S 35 B T
- A red pine 10 ins.dia., bears S.80° 30'W. 30 lks.
dist., mkd.T 36 S R 9 W S 34 B T
- A red pine 12 ins.dia.bears N.29° 45'W. 72 lks.

Subdivision of T. 36 S., R. 9 W.- Continued,

Chains. dist., mkd.T 36 S., R 9 W S 27 B T
Land, mountainous.
Soil, gravelly and rocky; 3d and 4th rates.
Timber, pine and aspen.
Undergrowth, oak and serviceberry.
Good grass for grazing.
Mountainous or heavily timbered land 80.00 chs.
September 5, 1907: At this cor.I set off $7^{\circ} 3' N.$ on the
decl.arc; and at 11 h. 59 m.a.m.l.m.t.observe the
sun.on the meridian; the resulting lat.is $37^{\circ} 59' N.$
which is the proper lat.nearly.

On account of precipitous ledges the foot of which is
7.00 chs.east.of this corner, I offset
 $N.0^{\circ} 01' W.$ 23.43 chs.to a point, where I
Set a yellow sandstone 14 x 12 x 6 ins., 9.ins.in the
ground for witness point, marked W P on W.face; from
which

A yellow pine 30.ins.dia., bears $N.80^{\circ} E.$ 85 lks.

dist., mkd.W P B T

A yellow pine, 36 ins.dia., bears $N.17^{\circ} W.$ 40 lks.

dist., mkd.W P B T

Thence I run
· East on random offset line betsecs.26 and 35,40.00 chs.
Thence $S.0^{\circ} 01'E.$ 23.43 chs.to point on line betsecs.

26 and 35

40.00 Set temp. $\frac{1}{4}$ sec.cor.

Thence on random line East betsecs.26 and 35,

80.22 Intersect N. and S.line 3.70 chs. $S.0^{\circ} 01'E.$ of the cor.
of secs.25 and 36, heretofore described.

Set a white sandstone 16 x 14 x 6 ins., 11 ins.in the
ground, for closing cor.of secs.26 and 35, marked
C. C on W., with 1 groove on S. and 1 groove on E.
face; from which

Subdivision of T. 36 S., R. 9 W.- Continued.

- Chains. A white pine 8 ins.dia. bears S. 50° 30'W. 71 lks.
dist., mkd. T 36 S R 9 W S 35 B T
- A spruce 12 ins.dia.bears N. 65° 30'W.37 lks.dist.
mkd.T 36 S R 9 W S 26 B T
- Thence I run north,
1. West on true line bet.secs.26 and 35,
Descending gradually through heavy timber..
- 0.97 Top of breaks of Cedar Canon 400 ft.above ravine bear
N. and S. Leave timber, bears N. and S.
- 2.22 Foot of white sandstone ledge, 50 ft.high, bears N.and
SW. Enter scattering timber, bears NW. and SE.
- 2.52 Foot of perpendicular ledge 100 ft.high bears NW. and
SE.
- Descend abruptly through heavy timber, bears NW. and SE.
- 4.92 Ravine, 100 ft.deep, course NW.
- 2.30 Leave heavy timber, bears N. and S.
- Ascend.
- 3.23 Top of ridge, 250 ft.high bears N. 10° W. and S. 10° E.
- 5.22 Foot of perpendicular ledge, 100 ft.high bears N. and S.
- 9.07 Foot of perpendicular ledge, 50 ft.high bears N. and S.
- Descend abruptly over steep south slope; through scat-
tering timber.
- 0.11 Point for $\frac{1}{4}$ sec.cor.falls on steep south slope, where
it would be impossible to perpetuate a corner; there-
fore at a point 4.95 chs.N. 0° 01'W.of true corner
point I
- Set a limestone 16 x 10 x 5 ins., 11 ins.in the ground
for witness cor.to $\frac{1}{4}$ sec.cor., marked W C $\frac{1}{4}$ on N.face
from which
- . A birdseye pine 10 ins.dia.bears N. 71° W. & 5 lks.
dist., mkd W C $\frac{1}{4}$ S 26 B T
- A birdseye pine, 6 ins.dia., bears S. 47° 45'E. 35
lks.dist., mkd.W C $\frac{1}{4}$ S 35 B T
- From true point for $\frac{1}{4}$ sec.cor.foot of ledges bears W.

Subdivision of T. 36 S., R. 9 W.- Continued,

Chains. . about 1.50 chs.dist. It is impossible to chain further west on this line.
From the witness $\frac{1}{4}$ sec.cor. set 4.95 chs.N.0° 01'W.of true corner point I offset N.0° 01'W. 18.48 chs.
. Thence west 40.11 chs.to witness point N.0° 01'W. 23.43 chs.from the cor.of secs.26,27,34, and 35, and by thence S.09° 01' E. to cor.of secs.26,27,34, and 35.
Land, mountainous.
Soil, stony; 4th rate.
Timber, pine, balsam, spruce, and aspen.
Mountainous or heavily timbered land 80.22 chs.

September 5, 1907.

September 6, 1907: At 7 h.. 59 m.a.m.l.m.t.I set off 37° 39' N.on the lat.arc; 6° 45' N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.26,27,34, and 35.
Thence I run
N.0° 01'W.bet.secs.26 and 27,
Over mountainous land; through scattering timber.
Ascend.
2.00 Top of ridge, 50 ft.above sec.cor., bears E. and W.
Descend.
12.00 Ravine, 200 ft.deep, course W.
Ascend.
19.70 Top of ridge, 225 ft.above ravine, bears W. and SE.
Descend.
23.43 Witness point on offset line bet.secs.26 and 35,
26.00 Begin abrupt descent, bears E. and W.
Enter heavy timber, bears E. and W.

Subdivision of T. 36 S., R. 9 W.

- Chains 40.00 Set a white sandstone 16 x 8 x 6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which
A yellow pine, 26 ins.dia., bears S. 44° 30'E. 32 lks.dist., mkd. $\frac{1}{4}$ S 26 B T
A yellow pine 24 ins.dia., bears S. 62° W. 57 lks. dist., mkd. $\frac{1}{4}$ S 27 B T
- 46.00 Creek, 3 lks.wide, 2 ins.deep, in hollow, 150 ft.below $\frac{1}{4}$ sec.cor., course SW.
Leave heavy and enter scattering timber, bears NE. and SW.
Ascend.
- 57.50 Top of spur, 300 ft.above hollow, bears NW. and SE.
Continue ascent.
- 72.35 Foot of perpendicular ledge 700 ft.high bears N. 70° E. and S. 70° W.
Ascend abruptly from top of ledges.
- 80.00 Top of ridge, 100 ft.above top of ledge, bears NE. and SW.
Set a sandstone 20 x 12 x 8 ins., 15 ins.in the ground, for cor.of secs.22,23,26, and 27, marked with 2 notches on S. and 2 notches on E.edges; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
Land, mountainous.
Soil, stony and gravelly; 4th and 3rd rates.
Timber, pine and aspen.
Good grass for grazing.
Mountainous or heavily timbered land 80.00 chs .
- September 6, 1907: At this cor.I set off $6^{\circ} 41'N.$ on the decl.arc; and at 11 h. 59 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is $37^{\circ} 40'N.$ which is the proper lat.nearly.

Subdivision of T. 36 S., R. 9 W. - Continued.

- Chains. N. 30° East.on a random line bet.secs.23 and 26,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.20 Intersect N. and S.line 4.12 chs.S.0° 01'E.of the cor.
of secs.24 and 25, Thence I run
Set a sandstone 18 x 10 x 8 ins., 12 ins.in the ground,
for closing cor.of secs.23 and 26, marked C C on W.
with 2 grooves on S. and 1 groove on E.face; and
raise a mound of stones 2 ft.base, $1\frac{1}{2}$ ft.high W.of
cor.
Thence I run
West on true line bet.secs.23 and 26,
Descending abruptly over ledges,
24.20 Creek, 2 lks.wide, 1 in.deep, in bottom of ravine,
course S.60° W.
Ascend abruptly over ledges.
37.24 Top of ridge, 500 ft.above ravine, bears N.30° E. and
S.30° W.
40.10 Set a sandstone 18 x 12 x 8 ins., 12 ins.in the ground
for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; and raise a mound
of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.
Corner 100 ft.below top of ridge.
Descend abruptly over ledges.
51.70 Creek, 2 lks.wide, 1 in.deep, in bottom of ravine, 250
ft.below spur, course S.20° W.
Ascend abruptly over ledges.
55.70 Top of spur, 250 ft.above ravine, bears N.30° W. and S.
30° E.
Descend abruptly over ledges.
59.20 Bottom of ravine 600 ft.below sec.cor., course SE.
Ascend abruptly over ledges.
80.20 The cor.of secs.22,23,26, and 27.
Land, mountainous and very rough, in breaks of Cedar
Cañon.

Subdivision of T. 36 S., R. 9 W.- Continued.

Chains. Soil, rocky; 4th rate.
Timber, pine, balsam, and spruce.
Mountainous land 80.20 chs.

September 6, 1907.

September 7, 1907: At 7 h. 58 m.a.m.l.m.t. I set off $37^{\circ} 40' N.$ on the lat.arc; $6^{\circ} 23' N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs. 22, 23, 26, and 27.

Thence I run

N. $0^{\circ} 01' W.$ on a random line bet.secs. 22 and 23,

40.00 Set temp. $\frac{1}{2}$ sec.cor.

84.70 Intersect E. and W.line, 12 lks.W. of the cor.of secs. 14, 15, 22, and 23, which is a red sandstone $8 \times 10 \times 10$ ins.above ground, firmly set and marked and witnessed as described by the surveyor general.

September 7, 1907: At this cor. I set off $6^{\circ} 18' N.$ on the decl.arc; and at 11 h. 58 m.a.m.l.m.t. observe the sun on the meridian; the resulting lat. is $37^{\circ} 41' N.$ which is the proper lat.nearly.

Thence I run

S. $0^{\circ} 04' W.$ on a true line bet.secs. 22 and 23,

Over mountainous land; through scattering timber; descending gradually.

4.05 Top of breaks of Cedar Canon bears N. $80^{\circ} W.$ and S. $50^{\circ} E.$
Descend abruptly over ledges.

6.00 Leave ledges, bear E. and W.

Continue abrupt descent.

8.00 Begin more gradual descent bears E. and W.

Enter heavy timber bears E. and W.

15.00 Leave heavy and enter scattering timber, bears NE. and SW.

Subdivision of T. 36 S., R. 9 W.- Continued.

Chains	Begin abrupt descent, bears NE. and SW.
17.15	Top of perpendicular ledge, 75 ft. high bears E. and W.
26.00	Creek, 1 lk.wide, 2 ins.deep, course S. 30° W., heads N. 10° W.
26.30	Creek, 1 lk.wide, 1 ins.deep, course S. 70° W.
29.00	Creek, 2 lks.wide, 2 ins.deep, course S. 30° E.
32.25	Top of perpendicular ledge, 300 ft. high, bears E. and W.
35.40	Creek, 3 lks.wide, 3 ins.deep, in bottom of ravine, 1500 ft.below top of breaks, course S. 30° W. Ascend over a series of perpendicular ledges, from 10 to 75 ft.high, on NW.slope of high ridge.
39.00	Spryng branch, 1 lk.wide, 2 ins.deep, course W.
44.70	Point for cor.falls on stationary quartzite boulder 5 \times 4 \times 4 ft.above ground, on which I cut a cross (X) at the exact corner point for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.side of cross; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.high W.of cor. This cor.is 250 ft.above ravine.
65.00	Top of sharp ridge, 800 ft.above $\frac{1}{4}$ sec.cor., bears N. 30° E. and S. 30° W. Descend over ledges.
74.00	Bottom of ravine, 250 ft.below ridge, course SW. Ascend abruptly over ledges.
84.70	The cor.of secs.22,23,26, and 27, 500 ft.above ravine. Land, mountainous and very rough, being in the breaks of Cedar Canon. Soil, rocky; 4th rate. Timber, pine, spruce, and balsam.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Mountainous or heavily timbered land, 84.70 chs.

September 7, 1907.

September 9, 1907: At 7h 58m a.m., l.m.t., I set off 37°38' N. on the lat.arc¹ 50°38' N. on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 3, 4, 33 and 34, on S.bdy. of Tp. heretofore described.

Thence I run

North 6° 2' W. bet. secs. 33 and 34.

See corrective
notes book 2

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

5.00 Bottom of ravine .50 ft. below sec.cor., course SW.

Ascend.

7.50 Top of ridge 100 ft. above ravine bears E. and W.

Descend.

27.00 Bottom of hollow 250 ft. below ridge, course NW.

Ascend.

34.00 Top of spur 250 ft. above hollow bears NW and SE.

Descend.

40.00 Set a white sandstone 16x8x8 ins., 11 ins. in the ground, for 1/4 sec.cor. marked 1/4 on W. face; from which

A yellow pine 10 ins. dia., bears S. 77 1/4° E. 44 lks.
dist., mkd. 1/4 S 34 B T.

A white pine 10 ins. dia., bears S. 36 1/2° W. 23 lks.
dist. mkd. 1/4 S 33 B T.

45.40 Trail bears NW and SE.

47.00 Bottom of hollow, 300 ft. below spur, course S. 75° W.

Ascend.

Subdivision of T.35 S., R.9 W.-Continued.

Chains.

- 63.00 Top of ridge 250 ft. above hollow, bears N.80° W. and E.
Descend.
- 80.00 Set a white sandstone 18x8x8 ins. 12 ins. in the ground,
for cor. of secs. 27, 28, 33 and 34, marked with 1 notch
on S. and 3 notches on E. edges; from which
A white pine 14 ins. dia., bears N.69 1/2° E. 82 lks.
dist. mkd. T. 36 S R 9 W S 27 B T.
An aspen 6 ins. dia., bears S.48 3/4° E. 103 lks. dist.,
mkd. T 36 S R 9 W S 34 B T.
A balsam 10 ins. dia. bears S.23 1/2° W. 108 lks. dist.,
mkd. T 36 S R 9 W S 33 B T.
A balsam 8 ins. dia., bears N.7 3/4° W. 49 lks. dist.,
mkd. T 36 S R 9 W S 28 B T.
This cor. is 350 ft. below ridge.
Land mountainous.
Soil, gravelly and stony; 3rd. and 4th. rate.
Timber, pine, balsam and aspen.
Undergrowth, oak and serviceberry.
Good grass for grazing.
Mountainous land or land covered with dense undergrowth.
- 80.00 chs.
- September 9, 1907: At the noon hour the sky is overcast
and solar observations are impossible.
-
- East on a random line bet. secs. 27 and 34.
- 40.00 Set temp. 1/4 sec. cor.
- 80.15 Intersect N. and S. line 14 lks. S. of the cor. of secs. 26,
27, 34 and 35.
Thence I run

Subdivision of T. 36 S., R. 9 W.-Continued.

- Chains. S. 89° 54' W. on a true line bet. secs. 27 and 34. See corrective notes book 2 over mountainous land; through scattering timber and page 3. scattering undergrowth.
- Descend over steep W. slope.
- 5.50 Bottom of ravine 200 ft. below sec. cor., course NW. Continue descent.
- 15.00 Spur 50 ft. high bears NW and SE. Continue descent.
- 27.25 Begin more gradual descent bears NW and SE.
- 29.50 Trail bears NW and SE.
- 32.00 Bottom of ravine 150 ft. below spur, course NW. Ascend.
- 40.08 Set a basaltic stone 16x10x8 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which
A balsam 6 ins. dia., bears N. 15° W. 50 lks. dist.,
mkd. 1/4 S 27 B T.
A yellow pine 16 ins. dia., bears S. 29° E. 34 lks.
dist. mkd. 1/4 S 34 B T.
- 45.00 Top of spur 200 ft. above ravine bears N. 60° W. and S. 60° E. Descend.
- 51.25 Wash 25 lks. wide and 8 ft. deep, course SW.
- 53.50 Creek 1 lk. wide 2 ins. deep, in bottom of hollow 100 ft. below spur, course NW.
- 54.00 Creek 10 lks. wide 5 ins. deep, course NW. Ascend.
- 56.50 Spring branch 3 lks. wide, 2 ins. deep, course NE.
- 73.00 Top of ridge, 350 ft. above creek, bears N. 20° W. and S. 20° E. Descend.
- 80.16 The cor. of secs. 27, 28, 33 and 34, 300 ft. below ridge. Land mountainous. Soil, gravelly and rocky; 3rd. and 4th. rate. Timber, pine, balsam and aspen.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Undergrowth, oak, elderberry and chokecherry..

Good grass for grazing.

Mountainous land; 80.16 chs.

September 9, 1907.

September 10, 1907: At 7^h.57' a.m., l.m.t., I set off. 37° 39' N. on the lat.arc: 50°15' N. on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 27, 28, 33 and 34.

Thence I run.

North 0° 2' W. bet. secs. 27 and 28.

Over mountainous land; through heavy timber and scattering undergrowth..

Descend.

6.50 Enter swamp bears E. and W..

9.50 Leave swamp bears E. and W..

13.40 Left hand fork of Coal Creek 10 lks. wide 4 ins. deep, in bottom of hollow 150 ft. below sec.cor., course NW.

14.50 Creek 5 lks. wide 3 ins. deep, in hollow 25 ft. deep, course W.

Ascend.

16.25 Trail bears NW. and SE.

21.50 Top of ridge, 150 ft. above creek bears NE and SW.

Descend.

29.20 Creek 2 lks. wide 1 inch deep in ravine 75 ft. below ridge course SW.

Ascend.

40.00 Set a white sandstone 16x6x6 ins. ll ins. in the ground, for 1/4 sec.cor. marked 1/4 on W. face; from which

'A yellow pine 18 ins. dia., bears N.56 1/4° E. 34 lks.

See corrective
notes book 2,
page 3.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

dist., mkd. 1/4 S 27 B T.

A spruce 10 ins. dia., bears S. 47 1/2° W. 89 lks.

dist. mkd. 1/4 S 28 B T.

This cor. is 100 ft. above creek.

44.20 Spring branch 2 lks. wide 2 ins. deep, course SW.

49.60 Spring branch 3 lks. wide 2 ins. deep, in wash 100 lks. wide
25 ft. deep, course SW.

70.20 Top of ridge 400 ft. above 1/4 sec. cor., bears NE and SW.

Descend along W. slope of ridge.

80.00 Point for cor. falls on stationary sandstone boulder 4x
3 1/2 xl ft. above ground, on which I cut a cross~~(at)~~ at the
exact cor. point for cor. of secs. 21, 22, 27 and 28, and
marked 2 notches on S. and 3 notches on E. sides of cross;
from which

A red cedar 7 ins. dia., bears S. 51 3/4° E. 83 lks.

dist. mkd. T 36 S R 9 W S 27 B T.

A balsam 12 ins. dia., bears S. 14 1/2° W. 163 lks. dist.,

mkd. T 36 S R 9 W S 28 B T.

A red cedar 12 ins. dia. bears N. 42 °W. -80 lks. dist.,

mkd. T 36 S R 9 W S 21 B T.

No other trees within limits; raise a mound of stone 2
ft. base 1 1/2 ft. high W. of cor.

Land mountainous.

Soil, gravelly and rocky; 3rd. and 4th. rate.

Timber, pine, spruce, balsam and cedar.

Undergrowth, oak, serviceberry and mahogany.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

September 16, 1907: At this cor. I set off 5° 11' N. on the
decl. arc; and, at 11h57m a.m., l.m.t., observe the sun on
the meridian; the resulting lat is 37°40' N. which is the
proper lat. nearly.

Subdivision of T.36 S., R.9 W.-Continued.

	Chains	
See corrective notes book 4G.00 2, page 4.		N.89° 54' E.on a random line bet.secs.22 and 27. set temp.1/4 sec.cor.
80.20		Intersect N.and S.line 7 lks.S.of the cor.of secs.22 , 23,26 and 27.
		Thence I run
		S.89° 51' W.bm a true line bet.secs.22 and 27.
		Over mountainous land;through scattering timber.
		Descend abruptly over a series of ledges.
15.15		Foot of perpendicular sandstone ledge 300 ft.high bears N.and S.
		Leave ledges bears N.and S.
		Enter heavy timber bears N.and S.
		Descend abruptly over steep W.slope.
29.00		Creek 4 lks.wide 3 ins.deep,in bottom of hollow 300 ft. below foot of ledges,course S.40° W.
		Ascend abruptly over ledges.
33.25		Foot of perpendicular ledge 300 ft.high bears N.30° E. and S.30° W.
		Leave heavy and enter scattering timber bears N.30° E. and S.30° W.
		Ascend more gradually over ledges.
40.10		Set a sandstone 20x12x7 ins.,15 ins.in the ground,for 1/4 sec.cor.,mkd.1/4 on N.face and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.
75.50		Top of ridge 300 ft.above 1/4 sec.cor.bears NW and SE. Descend over ledges.
79.70		Top of perpendicular ledge 500 ft.high bears NW and SE.
80.20		The cor.of secs.21,22,27 and 28,600 ft.below ridge. Land mountainous very rough,being in the breaks of Cedar canon.
		Soil,rocky;4th.rate.
		Timber,pine,balsam,spruce and red cedar.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Mountainous or heavily timbered land, 80.20 chs.

September 10, 1907.

September 11, 1907: At 7h57' A.m., l.m.t., I set off 37°42' N.on the lat.arc; 4° 52' N.on the decl.arc; and determine a meridian with the solar at the 1/4 sec.cor.bet. secs.9 and 10, which is a volcanic stone 10x12x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

Note.-Before running the line betsecs.21 and 22, I decide to complete the survey of secs.10 and 15, as regular secs., and for the purpose of making the irregular secs. uniform and in the same tier of secs.; therefore

I run

South 6° 2' E.on a true line bet.the South halves of Secs. 9 and 10.

Over mountainous land; through scattering timber.

Descend over broken ledges.

12.00 Top of perpendicular ledge 300 ft. high bears E. and W.
40.00 Set a lime stone 18x8x4 ins., 12 ins. in the ground, for cor.of secs.9,10,15 and 16,marked with 4 notches on S. and 3 notches on E.edges; from which

A birdseye pine 8 ins.dia.bears N.40 1/20 E.68 lks.
dist.mkd. T 36 S R 9 W S 10 BT.

A birdseye pine 12 ins.dia., bears S.10 1/40 E.153
lks.dist.mkd. T 36 S R 9 W S 15 B T.

A birdseye pine 16 ins.dia.bears S.46 3/40 W.63 lks.
dist.mkd. T 36 S R 9 W S 16 B T.

No other trees within limits; raise a mound of stone 2 ft.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

base 1 1/2 ft. high W.of cor.

This cor. is 800 ft. below 1/4 sec.cor.

Land mountainous very rough being in the breaks of Cedar canon.

Soil, rocky; 4th. rate.

Timber, pine, aspen and balsam.

Mountainous land, 40.00 chs.

September 11, 1907: At this cor. I set off 4048' N. on the decl. arc; and, at 11h57m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 42' N. which is the proper lat. nearly.

East on a random line bet. secs. 10 and 15.

40.00 Set temp. 1/4 sec.cor.

80.20 Intersect N. and S. line at the cor. of secs. 10, 11, 14 and 15, which is a volcanic stone 6x10x6 ins., above ground, firmly set and marked and witnessed as described by the Surveyor General.

Thence I run

West on a true line bet. secs. 10 and 15.

Over mountainous land; through heavy timber.

Descend.

3.35 Road from Cedar to Jenson's saw mill bears NW and SE.

3.50 Enter black volcanic rocks bears NW and SE.

8.00 Top of breaks of Cedar Canon bears N. and S.

Descend abruptly over ledges.

10.00 Top of perpendicular ledge 100 ft. high bears N. and S.

Leave ledges bears N. and S.

Continue abrupt descent through black rocks.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- 40.10 Set a trachyte stone 14x12x5 ins., 9 ins. in the ground, for 1/4 sec.cor., marked 1/4 on N.face; from which
An aspen 6 ins.dia.bears N.29 1/2° E.22 lks.dist.,
marked 1/4 S 10 B T.
An aspen 5 ins.dia., bears S.45 3/4° W.18 lks.dist.,
mkd. 1/4 S 15 B T.
- 45.75 Small lake 75 lks.long by 46 lks.wide on line;drains SE.
Ascend.
- 58.00 Enter ledges bears NE and SW.
- 73.30 Creek 1 lk.wide, 2 ins.deep, in ravine 25 ft.deep, course SW.
Leave ledges bears NE and SW.
Continue ascent.
- 78.00 Top of spur 100 ft.above ravine bears N.30° E.and S.30° W.
Descend.
- 80.20 The cor.of secs.9,10,15 and 16,75 ft.below spur.
Land mountainous.
Soil,gravelly loam and rocky; 2nd.and 4th.rate.
Timber,pine, and aspen.
Good grass for grazing on E.1/2 mile.
Mountainous or heavily timbered land,86.26 chs.

September 11, 1907.

September 12, 1907: At 7h57m a.m., l.m.t., I set off 37042' N.on the lat.arc; 4029' N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.9,10,15 and 16.

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains.

Thence I run

South $6^{\circ} 2'$ E. bet. secs. 15 and 16.

Over mountainous land; through scattering timber.

Descend.

3.50 Creek 1 lk. wide 2 ins. deep, in bottom of ravine 100 ft. bel.sec.cor., course SE.

Continue descent.

10.00 Begin more abrupt descent over ledges bears E. and W.

24.50 Leave ledges bears E. and W.

Continue abrupt descent.

40.00 Point for cor. falls on white sandstone boulder 5x3x1 1/2 ft. above ground, on which I cut a cross(x) at the exact cor. point for 1/4 sec.cor., marked 1/4 on W. side of cross (x); from which

A red pine 8 ins. dia., bears S. $41^{\circ} 3/4^{\circ}$ E. 17 lks. dist. mkd. 1/4 S 15 B T.A birdseye pine 8 ins. dia., bears N. $23^{\circ} 1/2^{\circ}$ W. 22 lks. dist. mkd. 1/4 S 16 B T.

This cor. is 500 ft. below sec.cor.

42.50 Creek 1 lk. wide 4 ins. deep, in bottom of ravine 100 ft. below 1/4 sec.cor., course SW.

Ascend.

43.50 Creek 3 lks. wide 6 ins. deep, in ravine 20 ft. deep, course S. 50° W.

Ascend abruptly over ledges.

66.25 Top of ridge 400 ft. above creek, bears N. 60° E., S. 60° W. and S.

Thence descend along top of ridge.

80.00 Set a trachyte stone 16x12x6 ins., 11 ins. in the ground, for cor. of secs. 15, 16, 21 and 22, marked 36 S on NE and 9W on SE faces; with 3 notches on S. and 3 notches on E. edges; from which

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

A balsam 12 ins.dia., bears N.57° E.15 lks.dist.,
mkd. T. 36 S R 9 w S 15 B T.

An aspen 6 ins.dia.bears S.28 1/4 ° E.75 lks.dist.,
mkd. T 36 s R 9 w S 22 B T.

An aspen 6 ins.dia.,bears S.37 1/20 W.52 lks.dist.,
mkd. T 36 s R 9 w S 21 B T.

An aspen 7 ins.dia.bears N.43° W.47 lks.dist.,
mkd. T 36 S R 9 W S 16 B T.

Land mountainous and very rough being in the breaks of
Cedar canon.

Soil, rocky; 4th.rate.

Timber, pine, aspen, and balsam.

Mountainous land, 80.00 chs.

September 12, 1907: At this cor. I set off 4°25' N.on the
decl.arc; and, at 11^h57^m a.m., l.m.t., observe the sun on
the meridian; the resulting lat. is 37°41' N. which is the
proper lat. nearly.

East on a random line bet. secs. 15 and 22.

46.00 Set temp. 1/4 sec.cor.

86.10 Intersect N. and S.line 14 lks.N. of the cor.of sees.14,
15,22 and 23, heretofore described.

Thence I run

N.89°54' W.on a true line bet.secs.15 and 22.

Over mountainous land; through heavy timber.

Ascend.

2.85 Top of breaks of Cedar Canon bears N.20° W. and S.20° E.
Descend abruptly over steep W.slope.

57.00 Leave heavy and enter scattering timber bears N.80° W.
and S.80° E.

Subdivision of T.35 S., R.9 W.-Continued.

Chains.

- 40.05 Set a trachyte stone, 16x10x6 ins., 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; from which
An aspen, 6 ins. diam. bears N. 12° W. 55 lks. dist., mkd.
1/4 S. 15 B. T.
- No other trees within limits; raise a mound of stone 2 ft. base. 1 1/2 ft. high N. of cor.
- 44.25 Creek 2 lks. wide 1 inch deep, in ravine 10 ft. deep, cours SW.
- Continue descent.
- 80.10 The cor. of secs. 15, 16, 21 and 22.
- Land mountainous.
- Soil, gravelly and rocky; 3rd. and 4th. rate.
- Timber, aspen, pine and balsam.
- Good grass for grazing.
- Mountainous or heavily timbered land; 80.10 chs.

September 12, 1907.

September 13, 1907: At 7^h56m a.m., l.m.t., I set off 37041' N. on the lat. arc; 407' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21 and 22.

Thence I run

S. 6° 02' E. on a random line bet. secs. 21 and 22.

Set temp. 1/4 sec. cor.

85.60 Intersect E. and W. line (7 lks. W. of the cor. of secs. 21, 22, 27 and 28).

Thence I run

North 605' W. on a true line bet. secs. 21 and 22.

Over mountainous land; through scattering timber.

Ascend abruptly.

Subdivision of T.36 S., R.9 W.-continued.

- Chains.
- .75 Foot of perpendicular ledge 500 ft. high bears N.40° W.
and S.40° E.
Continue abrupt ascent over ledges.
- 6.80 Top of ridge 800 ft. above sec.cor., bears NW and SE.
Leave ledges bears NW and SE.
Descend abruptly.
- 10.00 Enter heavy timber bears NW and SE.
- 21.25 Bottom of ravine 500 ft. below ridge, course NW.
Ascend.
- 24.00 Top of spur 60 ft. above ravine bears E. and W.
Descend.
- 25.00 Leave heavy and enter scattering timber bears NE and SW.
- 26.00 Creek 3 lks. wide, 2 ins. deep, in ravine 20 ft. deep, course SW.
Ascend.
- 28.25 Creek 2 lks. wide 2 ins. deep, course S.20° W.
- 32.75 Creek 1 lk. wide 1 inch deep, course SE.
- 34.00 Spring branch 1 lk. wide 2 ins. deep, course SW.
- 40.00 Set a quartzite stone 18x14x6 ins., 12 ins. in the ground,
for 1/4 sec.cor., marked 1/4 on W. face; from which.
A birdseye pine 6 ins. dia., bears N.13° E. 47 lks.
dist. mkd. 1/4 S 22 B T.
A spruce 12 ins. dia., bears S.60 1/20 W. 135 lks.
dist. mkd. 1/4 S 21 B T.
This cor. is about 250 ft. above ravine.
- 42.25 Top of ridge 50 ft. above 1/4 sec. cor. bears NE and SW.
Descend.
- 43.75 Creek 1 lk. wide 2 ins. deep in bottom of ravine 50 ft.
below ridge, course SW.
Ascend.
- 46.75 Top of ridge 50 ft. above ravine bears E. and W.
Descend.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- 49.30 Creek 3 lks.wide 2 ins.deep in ravine 200 ft.below ridge,
course NW.
- 50.50 Top of spur 70 ft.above ravine bears E.and W.
Descend.
- 52.30 Ravine 50 ft.below spur, course W.
Ascend.
- 54.60 Top of spur 20 ft.above ravine bears E.and W.
Descend.
- 57.10 Creek 1 lk.wide 2 ins.deep in ravine 100 ft.below
spur, course NW.
- 58.10 Creek 1 lk.wide 1 inch deep in ravine 15 ft.deep, course
S.80° W.
Ascend.
- 64.00 Top of ridge 150 ft.above ravine bears NW and SE.
Enter heavy timber bears NW and SE.
Descend.
- 81.50 Creek 2 lks.wide, 1 inch deep in ravine 300 ft.below
ridge, course W.
Ascend.
- 85.00 The cor.of secs.15,16,21 and 22 ,100 ft.above creek.
Land mountainous and very rough being in the breaks of
Cedar canon.
.Soil, rocky; 4th.rate.
Timber,pine,spruce and aspen.
Mountainous or heavily timbered land,85.00 chs.
September 13, 1907:At the noon hour the sky is overcast
and solar observations are impossible.

September 13, 1907.

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains	
	September 14, 1907: At 7h 56m a.m., l.m.t., I set off 370' 38' N. on the lat. arc; 30° 44' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 4, 5, 32 and 33 on S. bdy. of Tp., heretofore described.
	Thence I run See corrective notes book 2, page 6. North 60° 3' W. bet. secs. 32 and 33.
	Over mountainous land; through scattering timber & undergrowth Ascend over ledges out of "hole".
6.30	Top of ridge 500 ft. above sec. cor. on N. side of "HOLE", bears E. and W.
	Descend over ledges.
13.00	Leave ledges bears E. and W.
	Enter heavy timber bears E. and W.
23.50	Road bears NE and SW.
24.00	Creek. 3 lks. wide 3 ins. deep in ravine. 600 ft. below ridge course NE.
	Ascend.
35.60	Top of spur 100 ft. above creek bears S. and W.
	Descend.
40.00	Set a yellow sandstone 24x12x6 ins. 18 ins. in the ground, for 1/4 sec. cor. mkd. 1/4 on W. face; from which A balsam 10 ins. dia. bears E. 3 lks. dist., marked 1/4 S 33 B T.
	A yellow pine 30 ins. dia., bears W. 46 1/4° W. 31 lks. dist. mkd. 1/4 S 32 B T.
68.50	Wash 25 lks. wide 8 ft. deep, course NW.
71.80	Creek 3 lks. wide, 4 ins. deep, in ravine 250 ft. below 1/4 sec. cor., course NW.
	Ascend.
72.50	Road bears NW and SE.
79.50	Top of spur 150 ft. above creek bears NW and SE.
	Descend.
80.00	Set a yellow sandstone 14x8x8 ins., 9 ins. in the ground,

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains

for cor. of secs. 28, 29, 32 and 33, marked with 1 notch on S. and 4 notches on E. edges; from which

A balsam 10 ins. dia., bears N. 45 1/2° E. 48 lks. dist.,
mkd. T 36 S R 9 W S 28 B T.

A balsam 10 ins. dia. bears S. 89 3/4° E. 26 lks. dist.,
mkd. T 36 S R 9 W S 33 B T.

A balsam 10 ins. dia. bears S. 82 3/4° W. 43 lks. dist.
mkd. T 36 S R 9 W S 32 B T.

A red pine 8 ins. dia. bears N. 83 1/4° W. 46 lks. dist.
mkd. T 36 S R 9 W S 29 B T.

Land mountainous.

Soil, gravelly loam and stony; 2nd. and 4th. rate.

Timber, pine, aspen, and balsam.

Undergrowth oak.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

September 14, 1907: At this cor. I set off 30' 39" N. on the decl. arc; and, at 11^h 56^m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 39' N., which is the proper lat. nearly.

N. 89° 53' E. on a random line bet. secs. 28 and 33.

40.00 set temp. 1/4 sec. cor.

86.18 Intersect N. and S. line .5 lks. N. of the cor. of secs. 27, 28, 33 and 34.

Thence I run

S. 89° 55' W. on a true line bet. secs. 28 and 33.

Over mountainous land; through heavy timber and dense undergrowth.

See corrective notes, book 2 page 7.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	Descend.
2.56	Bottom of ravine 50 ft. below sec.cor.course N.
	Ascend.
8.25	Top of spur 200 ft. above ravine bears N. and S.
	Descend.
40.09	Set a yellow sandstone 16x12x8 ins.ll ins.in the ground, for 1/4 sec.cor.marked 1/4 on N.face from which A balsam 3 ins.dia.bears N.55 3/4° W.19 lks.dist., mkd. 1/4 S 28 E T. A balsam 6 ins.dia.bears S.57 3/4° W.16 lks.dist., mkd. 1/4 S 33 E T.
	This cor.is about 200 ft.below spur.
	Fred A Shdown's cabin bears N.44° E.about 33.00 chs.dist. From a cabin corral bears N.about 1.00 ch.dist.,and small en- closed garden patch bears W.about 25 lks.dist.
50.16	The cor.of secs.28,29,32 and 33,about 200 ft.below 1/4 sec.cor.
	Land mountainous.
	Soil,gravelly loam and rocky;2nd.and 4th.rate.
	Timber,pine,aspen,balsam and spruce.
	Undergrowth,barb and oak.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land, covered with dense undergrowth,80.18 chs.

September 14,1907.

September 16,1907:At 7h55m a.m.l.m.t., I set off 37039' on the lat.arc;2958' N.on the decl.arc;and determine a meridian with the solar at the cor.of secs.28,29,32 and 33.

Subdivision of T. 36 S., R. 9 W.—Continued.

Chains.

Coal scree line
and a, back 2,
slope S.

Thence I run

North $6^{\circ}3'$ W. bet. secs. 28 and 29.

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

5.90 Left hand fork of Coal Creek 12 lks. wide 5 ins. deep, rapid current, rocky bottom, clear water, in bottom of canon 100 ft. below sec.cor., course N. 60° W.6.30 Road bears N. 60° W. and S. 60° E.9.35 Creek 2 lks. wide, 1 inch deep, in hollow, course W.
Ascend abruptly.

40.00 Set a yellow sandstone 14x14x5 ins. 9 ins. in the ground, for 1/4 sec.cor. marked 1/4 on W. face; from which

A juniper 7 ins. diam. bears N. $15\frac{1}{2}$ E. 133 lks. dist.
mkd. 1/4 S 28 B T.A cedar 14 ins. dia., bears N. $79\frac{1}{2}$ W. 17 lks. dist.,
mkd. 1/4 S 29 B T.

This cor. is 400 ft. above creek.

61.75 Ravine 20 ft. deep, course SE.

Continue ascent.

69.50 Top of ridge 150 ft. above 1/4 sec.cor., bears NE and SW.

Descend.

80.00 Set a yellow sandstone 16x12x6 ins., 11 ins. in the ground, for cor. of secs. 20, 21, 28 and 29, marked with 2 notches on S. and 4 notches on E. edges; from which

A white pine 12 ins. dia., bears N. $20\frac{3}{4}$ E. 44 lks.
dist. mkd. T 36 S R 9 W S 21 B T.A white pine 24 ins. dia. bears S. $71\frac{1}{4}$ E. 28 lks.
dist. mkd. T 36 S R 9 W S 28 B T.A yellow pine 30 ins. dia., bears S. $67\frac{1}{2}$ W. 66 lks. dist.
mkd. T 36 S R 9 W S 29 B T.A white pine 16 ins. dia., bears N. $67\frac{1}{2}$ W. 26 lks. dist.,
mkd. T 36 S R 9 W S 20 B T.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

This cor. is 150 ft. below top of ridge.

Land mountainous.

Soil, gravelly; 5rd. rate.

Timber, pine, spruce, aspen, cedar and juniper.

Undergrowth, Oak, serviceberry and juniper.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,
80.00 chs.September 16, 1967: At this cor. I set off 2953' N. on the
decl. arc; and, at 11h55m a.m., l.m.t., observe the sun on
the meridian; the resulting lat. is $37^{\circ}40'$ N. which is the
proper lat. nearly.N. $37^{\circ}55'$ E. on a random line bet. secs. 21 and 23.

40.00 Set temp. 1/4 sec. cor.

40.16 Intersect N. and S. line 12 lks. S. of the cor. of secs. 21, 22,
27 and 28.

Thence I run

See corrective
notes book 2,S. $39^{\circ}50'$ W. on a true line bet. secs. 21 and 28. page 10.Over mountainous land; through heavy timber and scatter-
ing undergrowth.

Descend abruptly.

40.08 Point for 1/4 sec. cor. falls on stationary sandstone
boulder 4x1-1/2x1 ft. above ground, on which I cut a cross
(x) at exact cor. point for 1/4 sec. cor., and marked 1/4 on
N. side of cross; from whichA balsam 8 ins. dia., bears N. $31^{\circ}1/2'$ E. 71 lks. dist.,
mkd. 1/4 S 21 B T.A balsam 8 ins. dia. bears S. $55^{\circ}1/2'$ W. 45 lks. dist.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	mkd. 1/4 S 28 B.T.
	This cor. is 500 ft. below sec.cor.
43.30	Creek 1 lk.wide 2 ins.deep,in hollow 100 ft.below 1/4 sec.cor.,course SW.
45.90	Creek 1 lk.wide 2 ins.deep, course S.20° W. Enter dense undergrowth bears N.20° E.and S.20° W. Ascend.
52.90	Ravine 25 ft.deep, course SE. Continue ascent.
64.60	Top of ridge 250 ft.above creek,bears NE and SW. Leave dense and enter scattering undergrowth bears NE and SW. Descend.
80.16	The cor.of secs.20,21,28 and 29,125 ft.below ridge. Land mountainous. Soil,gravelly and stony;3rd.and 4th.rate. Timber,pine,balsam,spruce, and aspen. Undergrowth,oak,serviceberry and juniper. Good grass for grazing. Mountainous or heavily timbered land ,or land covered with dense undergrowth,80.16 chs.

September 16, 1907.

Note:

For reaons similar to those explained on page 23 of these notes, I proceed as follows:

September 17, 1907:At 7h55m a.m.,l.m.t.,I set off $37^{\circ}42'$ N.on the lat.arc; $20^{\circ}34'N$.on the decl.arc;and determine a meridian with the solar at the quarter section corner between sections 8, and 9,which is a limestone 8x10x6 ins. above ground,firmlly.set and marked and witnessed as described by the Surveyor.General.

Subdivision of T. 36 S., R. 9 W. - Continued.

Chains.	Thence I run S.0° 03'E.on a true line bet.secs. 8 and 9, (com- pleting the line bet.saidsecs.)	See corrective notes, book 2, page 12.
35.60	Over mountainous land; through scattering timber; de- scending abruptly over ledges.	
38.75	Intersect old witness cor.to cor.of secs.8,9,16, and 17, which is a volcanic stone 8 x 10 x 5 ins.above ground firmly set and marked and witnessed as described by the surveyor general, which I now destroy.	
40.00	Top of perpendicular ledge, 500 ft.high, bears N.80° E. and S.80° W. Set a quartzite stone 20 x 8 x 5 ins., 15 ins.in the ground, for cor.of secs.8,9,16, and 17, marked with 4 notches on S. and 4 notches on E.edges; from which A spruce, 12 ins.dia., bears N.73° 30'E. 54 lks. dist., marked T 36 S R 9 W S 9 B T A spruce, 12 ins.dia., bears S.42° 30'E. 83 lks. dist., mkd.T 36 S R 9 W S 16 B T A birdseye pine, 10 ins.dia., bears S.33° W. 10 lks.dist., mkd.T 36 S R 9 W S 17 B T A spruce, 12 ins.dia., bears N.15° 30'W. 68 lks. dist., mkd. T 36 S R 9 W S 8 B T This cor.is about 800 ft.below top of breaks.	
	Land, mountainous, and very rough.	
	Soil, rocky; 4th rate.	
	Timber, pine and spruce.	
	Mountainous land 40.00 chs.	

Subdivision of T. 36 S., R. 9 W.- Continued.

Chains. East, on a random line bet. secs. 9 and 16,
40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.00 Intersect N. and S.line, 5 lks.N.of the cor.of secs. 9,
10,15, and 16.

Thence I run

See corrective
notes book 2,
page 13.

N.89° 58'W.on a true line bet.secs.9 and 16,
Over mountainous land; through scattering timber.

Descend.

3.00 Creek, 1 lk.wide, 2 ins.deep, in ravine, 50 ft.below
sec.cor., course SE.

Ascend abruptly.

6.50 Top of ridge, 200 ft.above creek, bears N. and S.
Descend abruptly over ledges.

24.00 Creek, 1 lk.wide, 1 inch deep, in bottom of ravine, 800
ft.below ridge, course SW.

Ascend abruptly over ledges.

40.00 Point for $\frac{1}{4}$ sec.cor.falls on stationary sandstone
boulder, 20 x 10 x $2\frac{1}{2}$ ft.above ground, on which I
cut a cross (X) at the exact cor.point for $\frac{1}{4}$ sec.cor.
marked $\frac{1}{4}$ on N.side of cross; from which

A red pine 8 ins.dia.bears N.38° 45'W.36 lks.dist.
mkd. $\frac{1}{4}$ S 9 B T

A red cedar, 16 ins.dia., bears S.54° 30'W. 21
lks.dist., mkd. $\frac{1}{4}$ S 16 B T

Enter heavy timber and dense undergrowth, bears NE.
and SW.

80.00 The cor.of secs.8,9,16, and 17, 500 ft.above $\frac{1}{4}$ sec.cor.
Land, mountainous and very rough, being in the breaks
of Cedar Canon.

Soil, rocky; 4th rate.

Timber, pine, spruce, and red cedar.

Undergrowth, juniper and oak.

Subdivision of T. 36 S., R. 9 W. - Continued.

Chains.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

September 17, 1907: At this cor. I set off $20^{\circ} 30'$ N. on the decl. arc; and, at 11h55m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 42'$ N.; which is the proper lat. nearly.

West on a random line bet. secs. 8 and 17.

40.14 Fall 7' lks. S. of the 1/4 sec. cor. bet. secs. 8 and 17, which is a volcanic stone 10x18x6 ins., above ground, firmly set and marked and witnessed as described by the Surveyor General.

See corrective notes, book 2, page 14.

Thence I run S. $89^{\circ} 54'$ E. on a true line bet. secs. 8 and 17.

Over mountainous land; through scattering timber and undergrowth.

Descend.

8.45 Creek 1 lk. wide 2 ins. deep, in ravine 100 ft. below 1/4 sec. cor., course SE.

9.00 Spring branch 1 lk. wide 2 ins. deep, course S.

Ascend over steep W. slope.

19.00 Begin abrupt ascent over broken ledges bears N. 20° W. and S. 20° E.

35.00 Top of perpendicular ledge 500 ft. high bears N. 88° E. and S. 88° W..

Descend abruptly over broken ledges.

40.14 The cor. of secs. 8, 9, 16 and 17, 600 ft. below top of ledges. Land mountainous.

Soil, gravelly and stony; 3rd. and 4th. rate.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Timber,pine,spruce and aspen.

Undergrowth,oak.

Good grass for grazing W.of ledges.

Mountainous land 40.14 chs.

September 17, 1907.

September 18, 1907: At 7h54m a.m., l.m.t., I set off 37042' N. on the lat.arc; $20^{\circ} 11'$ N. on the decl.arc; and determine a meridian with the solar, at the cor.of secs.8,9,16 and 17.

Thence I run.

South $0^{\circ} 3'$ E.betsecs.16 and 17.

Over mountainous land; through heavy timber and dense undergrowth.

Descend abruptly over steep S.slope of mountain.

25.00 Bottom of ravine 400 ft.below sec.cor., course SE.

Ascend abruptly.

25.00 Top of ascent 40 ft.above ravine bears NW and SE.

Descend.

40.00 Set a sandstone 20x8x6 ins., 15 ins.in the ground, for $1/4$ sec.cor., marked $1/4$ on W.face; from whichA yellow pine .24 ins.dia., bears N.51 $1/40$ E.150lks.dist., mkd. $1/4$ S 16 B.T.A yellow pine 30 ins.dia., bears S. 35° W.172 lks.dist.mkd. $1/4$ S 17 B.T.49.00 Top of spur 50 ft.below $1/4$ sec.cor., bears NE and SW.

Continue descent.

50.50 Heavy undergrowth bears NE and SW.

53.40 Creek 3 lks.wide 1 ft.deep, in ravine 250 ft.below spur, course SW.

Subdivision of T. 36 S., R. 9 W. -Continued.

Chains.

Ascend.

- 80.00 Set a white sandstone 20x10x6 ins., 15 ins. in the ground, for cor. of secs. 16, 17 20 and 21, marked with 3 notches on S. and 4 notches on E. edges; from which
 A balsam 6 ins. dia., bears N. 44 $3/4^{\circ}$ E. 30 lks. dist.,
 mkd. T 36 S R 9 W S 16 B T.
 A red pine 8 ins. dia., bears S. 3 $3/4^{\circ}$ E. 30 lks. dist.,
 mkd. T 36 S R 9 W S 21 B T.
 A white pine 8 ins. dia. bears S. 49 $3/4^{\circ}$ W. 14 lks. dist.
 mkd. T 36 S R 9 W S 20 B T.
 A white pine 6 ins. dia. bears N. 46 $1/4^{\circ}$ W. 42 lks. dist. mkd. T 36 S R 9 W S 17 B T.

This cor. is about 150 ft. above creek.

Land mountainous.

Soil, gravelly and stony; 3rd. and 4th. rate.

Timber, pine, balsam, aspen, spruce and juniper.

Undergrowth, oak and juniper with birch and willows along creek banks.

Good grass for grazing on S. 1/2 mile.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

September 18, 1907: At this noon hour the sky is overcast and solar observations are impossible.

S. $89^{\circ}58'$ E. on a random line bet. secs. 16 and 21.

40.00 Set temp. 1/4 sec. cor.

80.12 Intersect N. and S. line 14 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

N. $89^{\circ}52'$ W. on a true line bet. secs. 16 and 21. See corrective notes book 2, page 16.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- Over mountainous land; through scattering timber.
Descend abruptly.
- 9.00 Top of perpendicular ledge 50 ft. high bears NW and SE.
- 11.15 Creek 2 lks. 2 ins. deep, in ravine 200 ft. below sec. cor., course N. 70° W.
Enter heavy timber bears NW and SE.
Ascend.
- 18.00 Top of spur 150 ft. above creek bears N. 20° W. and S. 20° E.
Descend.
- 46.06 Set a trachyte stone 16x10x4 ins., 11 ins. in the ground, for 1/4 sec. cor. marked 1/4 on N. face; from which
An aspen 6 ins. dia. bears N. 52 1/2° E. 22 lks. dist.,
mkd. 1/4 S 16 B T.
A balsam 6 ins. dia., bears S. 66° E. 40 lks. dist.,
mkd. 1/4 S 21 B T.
This cor. is about 100 ft. below spur.
- 46.40 Creek 4 lks. wide, 3 ins. deep in bottom of hollow 200 ft. below 1/4 sec. cor., course SW.
Enter dense undergrowth bears NE and SW.
Ascend.
- 50.00 Top of spur 100 ft. above creek bears N. and S.
Descend.
- 52.80 Ravine, 3100 ft. below spur, course SE.
Ascend.
- 74.20 Top of ridge 200 ft. above ravine bears NE and SW.
Descend.
- 80.12 The cor. of secs. 16, 17, 20 and 21, 100 ft. below ridge.
Land mountainous.
Soil, gravelly and stony; 3rd. and 4th. rate.
Timber, pine, balsam, spruce, aspen and mahogany.
Undergrowth, oak and mahogany with willows along creek banks.

Subdivision of T. 36 S., R. 9 W. -Continued.

Chains.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth, 80.12 chs.

September 18, 1907.

September 19, 1907: At 7^h54^m a.m., l.m.t., I set off 37°41' N. on the lat. arc; 1°48' N. on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 16, 17 20 and 21.

Thence I run

South 0°03' E. on a random line bet. secs. 20 and 21.

40.00 Set temp. 1/4 sec. cor.

85.65 Intersect E. and W. line 22 lks. W. of the cor. of secs. 20, 21, 28 and 29.

See corrective
notes book 2,
page 18.

Thence I run North 0° 12' W. on a true line bet. secs. 20 and 21.

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

6.30 Bottom of ravine 50 ft. below sec. cor., course S. 80° W.

Ascend.

19.65 Top of spur, 75 ft. above ravine bears N. 80° E. and S. 80° W.

30.70 Creek 3 lks. wide 2 ins. deep in ravine 100 ft. below spur, course S. 80° W.

Ascend.

35.15 Top of spur 100 ft. above ravine bears NE and SW.

Descend.

35.65 Trail bears NE and SW.

Subdivision of T.36 S., R.9 W.-Continued.

chains	
40.00	Set a yellow sandstone, 16x8x6 ins. ll ins in the ground, for 1/4 sec.cor. marked 1/4 on W.face; from which A balsam 8 ins. dia. bears N.39° E.37 lks.dist., mkd. 1/4 S 21 B T. A red pine 12 ins. dia. bears N.21° W.48 lks.dist., mkd. 1/4 S 20 B T. This cor. is 100 ft. below spur.
55.00	Creek 4 lks.wide 6 ins.deep in ravine 200 ft. below 1/4 sec.cor., course S.30° W. Ascend abruptly; through heavy timber.
80.00	Top of ridge 400 ft. above ravine, bears NE and SW. Descend.
85.65	The cor.of secs.16,17,20 and 21,150 ft. below top of ridge. Land mountainous. Soil, gravelly and stony; 3rd.and 4th.rate. Timber, pine, cedar, spruce, balsam, juniper and aspen. Undergrowth, oak and juniper. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 85.65 chs. September 19, 1907: At this cor. I set off 1° 43' N. on the decl.arc; and, at 11h54m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37°41' N., which is the proper lat. nearly.
	September 19, 1907.
	September 20, 1907: At 7h54m a.m., l.m.t., I set off 37°38' N. on the lat.arc; 1025' N. on the decl.arc; and determine a meridian with the solar, at the cor.of secs.5,6,31 and 32, on S.bdy.of Tp.herefore described.

Subdivision of T.36 S., R.9 W.-Continued.

Chains

Thence to run
North $60^{\circ} 3'$ W. bet. secs. 31 and 32.

See corrective
notes, book 2,
page 20.

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

3.00 Crystal Creek 5 lks. wide 6 ins. deep in bottom of canon 22 ft. below sec. cor., course NW.

Ascend.

5.30 Trail bears NW and SE.

7.50 Trail bears E. and W.

22.50 Top of ridge, 200 ft. above creek bears N. 70° W. and S. 70° E.

From this point Thomas Webster's cabin bears S. $72^{\circ} 1/4^{\circ}$ W. about 52.66 chs. dist. There is a corral E. of house about 1.66 ch. dist.

Enter heavy timber bears N. 70° W. and S. 70° E.

Descend.

46.66 Set a yellow sandstone 14x12x8 ins. 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; from which

A balsam 12 ins. dia., bears S. $47^{\circ} 3/4^{\circ}$ E. 25 lks. dist.,
mkd. 1/4 S 32 B T.

A balsam 6 ins. dia., bears N. 39° W. 32 lks. dist.,
mkd. 1/4 S 31 B T.

This cor. is 200 ft. below ridge.

E. edge of small fenced garden containing about 1/8 acre, belonging to George Ashdown.

Trail bears NW and SE.

56.66 Set a yellow sandstone 16x12x10 ins. 11 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E. edges; from which

A yellow pine 10 ins. dia., bears N. 61° E. 146 lks.
dist. mkd. T 36 S R 9 W S 29 B T.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

A yellow pine 6 ins.dia., bears S.58 $1\frac{1}{4}^{\circ}$ E.20 lks.
dist.mkd. T 36 S R 9 W S 32, B T.

An aspen 6 ins.dia., bears S.61 $1\frac{1}{4}^{\circ}$ W.17 lks.dist.,
mkd. T 36 S R 9 W S 31 B T.

An aspen 6 ins.dia.bears N.39 $1\frac{1}{4}^{\circ}$ W.66 lks.dist.,
mkd. T 36 S R 9 W S 30 B T.

This cor.is 300 ft.below $\frac{1}{4}$ sec.cor.

Land mountainous.

Soil,gravelly and loam;3rd.and 2nd.rate.

Timber,pine,balsam and aspen.

Undergrowth,oak and serviceberry.

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth,80.00 chs.

September 20,1907:At this cor.I set off $1^{\circ} 20'$ N.on the decl.arc;and ,at $11^h 54'$ a.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is $37^{\circ} 39'$ N.,which is the proper lat.nearly.

N. $89^{\circ} 53'$ E.on a random line bet.secs.29 and 32.

46.00 Set temp. $1\frac{1}{4}$ sec.cor.

86.20 Intersect N.and S.line 12 lks.N.of the cor.of secs.28,
29,32 and 33.

Thence I run

S. $89^{\circ} 58'$ W.on a true line bet.secs.29 and 32.

Over mountainous land;through heavy timber and scattering undergrowth.

Ascend.

.56 Top of spur,25 ft.above the sec.cor.,bears NW and SE.

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains

Descend.

3.30 Road bears NW and SE.

Foot of descent, 100 ft. below spur bears NW and SE.

Enter bottom of broad hollow.

Leave heavy and enter scattering timber bears NW and SE.

Enter dense undergrowth bears NW and SE.

6.15 Creek 3 lks. wide 3 ins. deep, course NW.

33.46 Leave bottom of hollow, bears N. and S. 85° E.

Enter heavy timber bears N. and S. Ascend.

33.50 Trail bears N. and S.

40.10 Set a yellow sandstone 16x8x4 ins. ll ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; from which

A yellow pine 36 ins. dia. bears N. 80° W. 137 lks. dist., mkd. 1/4 S 29 B T.

A yellow pine 40 ins. dia. bears S. 76° W. 214 lks. dist., mkd. 1/4 S 32 B T.

From this cor. Henry Ashdown's cabin bears N. 25° E. about 10 chs. dist. From the cabin stable bears E. about 2.00 chs. dist.; a reservoir bears N. about 1.00 ch. dist.; corral bears N. about 2.00 chs. dist.; a granary bears Westerly about 1.00 ch. dist.; a corral S. about 3.00 chs. dist.

From this cor. a saw mill owned by George Ashdown's heirs bears N. 80° 15' E. about 8.00 chs. dist.

72.75 Top of ridge 200 ft. above 1/4 sec. cor. bears N. and S.

Descend.

80.20 The cor. of secs. 29/30, 31 and 32, 300 ft. below ridge.

Land mountainous and level bottom.

Soil, gravelly; 3rd. rate.

Timber, pine, aspen, spruce and balsam.

Undergrowth, oak and serviceberry.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered

Subdivision of T. 56 S., R. 9 W.-Continued.

Chains.

with dense undergrowth, 80.20 chs.

September 20, 1907.

Note:

Knowing from retrace ment of the West bdy. of the Tp., that the line bet. secs. 30 and 31 will not intersect said west bdy. within limits, I run as follows:

September 21, 1907: At 7h 54^m a.m., l.m.t., I set off 370' 39' N. on the lat. arc; 1° 2' N. on the decl. arc; and determine a meridian with the solar; at the cor. of secs. 29, 30, 31 and 32.

Thence I run

S. 89° 53' W. on a true line bet. secs. 30 and 31.

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

1.20 Creek 2 lks. wide 1 inch deep in hollow 50 ft. below sec. cor. course N.

Ascend.

2.42 Trail bears NE and SW.

7.25 Trail bears NW and SE.

13.00 Top of ridge 150 ft. above hollow bears N. and S.
Descend gradually.

19.00 Begin abrupt descent bears N. and S.

25.00 Bottom of hollow 150 ft. below ridge, course N.

Ascend.

37.50 Top of ridge, 100 ft. above hollow bears N. and S.
Descend gradually.

40.00 Set a yellow sandstone 14x8x6 ins. 9 ins. in the ground, for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound of stone 2 ft. base 1 1/2 ft. high N. of cor.

48.50 Begin abrupt descent bears N. and S.

62.10 Road bears NE and SW.

sec corrective
notes book 2,
page, 24.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

72.13 Top of breaks on S.side of left hand fork of Coal Creek canon. It is impossible to chain further on this line, therefore I . . .

. Set a sandstone 20x12x4 ins., 15 ins. in the ground, for witness cor. to closing cor. to secs. 30 and 31, marked WC on N. and CC on E.; with 5 grooves on N. and 1 groove on S. faces; from which

A balsam 6 ins. dia., bears N. 75° E. 29 lks. dist.,

mkd. WC T 36 S R 9 W S 30 B T.

A red pine 6 ins. dia., bears S. $14 \frac{1}{4}^{\circ}$ E. 83 lks.

dist., mkd. WC T 36 S R 9 w S 31 B T.

. In order to pass around ledges I offset as follows:

South $0^{\circ}22'$ E. 4.64 chs.; then on offset line

S. $89^{\circ}53'$ W. 2.37 chs.; which added to 72.13 chs.

makes . . .

74.50 Intersect W.bdy.of Tp. at the witness cor. to cor. of secs. 25 and 36, heretofore described.

Land mountainous.

Soil, gravelly; 3rd. rate.

Timber, pine, aspen, balsam and spruce.

Undergrowth, oak, serviceberry and chokecherry.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth, 74.50 chs.

September 21, 1967: At the noon hour the sky is overcast and solar observations are impossible.

North $0^{\circ}3'$ W. bet. secs. 29 and 30.

See corrective notes, book 2, page 26.

Over mountainous land; through scattering timber and dense undergrowth.

Descend.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- 11.00 Road bears N. 20° E. and S. 20° W.
- 14.75 Bend in same road bears N. 70° E. and SW.
- 20.85 Top of perpendicular ledge 60 ft. high bears N. 60° W. and S. 60° E.
- 21.00 Left hand fork of Coal Creek 15 lks. wide, 6 ins. deep, in bottom of left hand fork of Coal Creek canon, course N. 60° W.
- Ascend..
- 21.60 Foot of perpendicular ledge 50 ft. high bears N. 60° W. and S. 60° E.
- 38.00 Top of ridge 400 ft. from canon bottom, bears N. 60° E. and S. 60° W.
- Descend..
- 40.00 Set a yellow sandstone 18x14x4 ins. 12 ins. in the ground, for 1/4 sec. cor. marked 1/4 on W. face; from which
A yellow pine 36 ins. dia. bears N. 16° E. 132 lks. dist.,
mkd. 1/4 S 29 B T.
- A yellow pine 36 ins. dia. bears S. 62° 1/29 W. 190 lks. dist. mkd. 1/4 S 30 B T.
- This cor. is about 50 ft. below top of ridge.
- 51.00 Creek 2 lks. wide 2 ins. deep in ravine 150 ft. below 1/4 sec. cor., course S. 60° W.
- Ascend..
- 61.00 Top of ridge 100 ft. above creek bears NE and SW.
- Descend..
- 72.00 Creek 2 lks. wide 2 ins. deep in ravine 100 ft. below ridge, course S. 35° W.
- Ascend..
- 80.00 Point for cor. falls on stationary sandstone boulder 4x6x2 ft. above ground, on which I cut a cross(x) at the exact cor. point for cor. of secs. 19, 20, 29 and 50, and marked 2 notches on S. and 5 notches on E. side of cross(x) from which

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

A cedar 8 ins.dia., bears N.48 $1/2^{\circ}$ E.18 lks.dist.,
mkd. T 36 S R 9 W S 20 B T.

A nut pine 16 ins.dia.bears N.51 $1/2^{\circ}$ W.31 lks.dist.
mkd. T 36 S R 9 W S 19 B T.

No other trees within limits; I raise a mound of stone
2 ft. base 1 $1/2$ ft. high W.of cor.

This cor.is 250 ft.above creek.

Land mountainous.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, pine and cedar.

Undergrowth, oak, serviceberry and chokecherry.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,
80.00 chs.

September 21, 1907.

September 23, 1907: At 7^h53 m.a.m., l.m.t., I set off $37^{\circ} 40'$ N.on the lat.arc; $6^{\circ} 15'$ N.on the decl.arc; and determine a meridian with th solar; at the cor.of secs.19, 20, 29 and 30.

Thence I run

N. $89^{\circ} 52'$ E.on a random line bet.secs.20 and 29.

40.00 Set temp.1/4 sec.cor.

80.18 Intersect N.and S.line 14 lks.S.of the cor.of secs.20, 21, 28 and 29.

Thence I run.

See corrective
notes, book 2,
page 28.

S. $89^{\circ} 52'$ W.on a true line bet.secs.20 and 29.

Over mountainous land; through heavy timber and scattering undergrowth.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
29.00	Creek 2 lks.wide 2 ins.deep,in ravine 250 ft.below sec. cor.,course SW. Leave heavy and enter scattering timber bears NE and SW Ascend.
30.00	Trail bears NE and SW.
40.09	Set a yellow sandstone 16x8x6 ins.,11 ins.in the ground, for 1/4 sec.cor.marked 1/4 on N.face from which A red cedar 12 ins.dia.,bears N.59° W.25 lks.dist. mkd. 1/4 S 20 B T. A nut pine 10 ins.dia.,bears S.31 1/4° W 25 lks. dist.mkd. 1/4 S 29 B T.
45.00	Enter heavy timber bears NE and SW.
60.00	Top of ridge 300 ft.above creek bears NE and SW. Descend abruptly.
70.00	Leave heavy and enter scattering timber bears NE and SW.
73.50	Creek 2 lks.wide 2 ins.deep in ravine 350 ft.below ridge course SW. Ascend abruptly.
80.18	The cor.of secs.19,20,29 and 30,250 ft.above creek. Land mountainous. Soil,gravelly and stony;3rd:and 4th.rate. Timber,pine,aspen and cedar. Undergrowth,oak and serviceberry. Good grass for grazing. Mountainous or heavily timbered land or land covered with dense undergrowth,80.18 chs. September 23,1907:At this cor.I set off 0°10'N.on the decl.arc;and ,at 11h53m a.m.,l.m.t.,observe the sun on the meridian ;the resulting lat.is 37°40' N.,which is the proper lat.nearly.

Note:Knowing from retracement of the west bdy.of the Tp, that the line betsecs'19 and 30 will not intersect

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains.

See corrective notes

said west bdy. within limits, I run

book 2, page 29.

S. $89^{\circ}53'$ W.on a true line bet.secs.19 and 30.

Over mountainous land ;through scattering timber and dense undergrowth.

40.00

Set a yellow sandstone 16x10x6 ins.,11 ins.in the ground, for 1/4 sec.cor.marked 1/4 on N.face;and raise a mound of stone 2 ft.base 1 1/2 ft.high N.of cor.

This cor.is 250 ft.above sec.cor.

67.50

Top of ridge 200 ft.above 1/4 sec.cor.,bears NE and SW. Descend.

74.78

Intersect W.bdy.of Tp.10.33 chs. S. $0^{\circ}22'$ E.from the cor. of secs.24 and 25,heretofore described.

set a sandstone 18x10x4 ins.12 ins.in the ground,for closing cor.of secs.19 and 30,marked CC on E.;with 4 grooves on N.and 2 grooves on S.faces;and raise a mound of stone 2 ft.base 1 1/2 ft.high E of cor.

Land mountainous.

Soil,gravelly;3rd.rate.

Timber,pine and cedar.

Undergrowth,oak,serviceberry and mahogany.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,

74.78 chs.

September 23, 1907.

September 24, 1907:At 7^h52^m a.m.,l.m.t.,I set off $37^{\circ}40'$ N.on the lat.arc; $0^{\circ}09'$ S.on the decl.arc;and determine a meridian with the solar,at the cor.of secs.19,20,29 and 30.

Subdivision of T.36 S., R.9 W.-Continued.

See corrective
notes, book 2,
page 31.

- C^bains.
- Thence I run
North $6^{\circ} 03'$ W.on a random line bet.secs.19 and 20.
- 40.66 Set temp.1/4 sec.cor.
- 85.90 Intersect E.and W.line 37 lks.E.of the cor.of secs.19,18,
19 and 20,which is a volcanic stone 8x10x5 ins.,above
ground firmly set and marked and witnessed as described
by the Surveyor General.
- Thence I run
South $6^{\circ} 18'$ E.on a true line bet .secs.19 and 20.
Over mountainous land;through dense undergrowth.
Descend.
- 9.96 Bottom of ravine 200 ft.below sec.cor.,course SE.
- 10.90 Trail bears NW and SE.
- 26.00 Top of spur 50 ft.high bears NW and SE.
Descend.
- 45.90 Set a trachyte stone 14x10x6 ins.,9 ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on W.face;and raise a mound
of stone 2 ft.base 1 1/2 ft.high W.of cor.
- 55.00 Enter scattering timber bears E.and W.
- 55.90 A small lake bears W.about 6.00 chs.dist.
- 61.50 Creek 1 lk.wide 1 inch deep in ravine 100 ft.deep,course
SE.
Continue descent.
- 85.90 The cor.of secs.19,20,29 and 30,250 ft.below 1/4 sec.
cor.
Land mountainous.
Soil,gravelly and stony;3rd.and 4th.rate.
Timber,pine and cedar.
Undergrowth,oak,mahogany and serviceberry.
Good grass for grazing.
Mountainous land or land covered with dense undergrowth,
85.90 chs.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

September 24, 1907: At the noon hour the sky is overcast and solar observations are impossible.

September 24, 1907.

September 25, 1907: At 7^h52' a.m., l.m.t., I set off 37°41' N. on the lat. arc; 6° 32' S. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run

N. 33° 52' E. on a random line bet. secs. 17 and 20.

40.00 Set temp. 1/4 sec. cor.

86.24 Intersect N. and S. line 35 lks. N. of the cor. of secs. 16, 17, 20 and 21.

See corrective notes
book 2, page 33.

Thence I run

N. 29° 53' W. on a true line bet. secs. 17 and 20.

Over mountainous land; through heavy timber and scattering undergrowth.

Descend.

5.00 Begin abrupt descent over ledges bears NE and SW.

10.20 Creek 3 lks. wide, 4 ins. deep, in ravine 500 ft. below sec. cor. course SW.

Leave ledges bears NE and SW.

Leave heavy timber bears NE and SW.

Enter dense undergrowth, bears NE and SW.

Ascend abruptly.

13.00 Top of spur 100 ft. high, bears NE and SW.

Descend.

17.60 Creek 2 lks. wide 1 inch deep in ravine 10 ft. deep, course SW.

Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- 18.75 Enter dense willows bears NE and SW.
- 19.00 Spring branch 2 lks.wide, 2 ins.deep, coarse SW.
Ascend.
- 19.50 Leave willows, bears NE and SW.
- 31.25 Top of spur 150 ft.above ravine bears NW and SE.
Descend.
- 34.20 Bottom of hollow 100 ft.below spur, course SE.
Ascend.
- 40.12 Set a yellow sandstone 16x10x6 ins.ll ins.in the ground,
for 1/4 sec.cor.,marked 1/4 on N.face;from which
A balsam 16 ins.dia.bears S.28 3/4° W.175 lks.dist.,
mkd. 1/4 S 20 B T.
No other trees within limits;raise a mound of stone 2
ft.base. 1 1/2 ft.high N.of cor.
- 46.10 Top of ridge 200 ft.above 1/4 sec.cor.bears NW and SE.
Descend.
- 56.40 Creek 1 lk.wide 1 inch deep in ravine 100 ft.below ridge
course SE.
Ascend.
- 60.00 Leave timber bears NW and SE.
- 80.24 The cor.of secs.17,18,19 and 20,400 ft.above creek.
Land mountainous.
Soil,gravelly;3rd.rate.
Timber,pine and aspen.
Undergrowth,oak ,mahogany and serviceberry.
Good grass fir grazing.
Mountainous or heavily timbered land,or land covered
with dense undergrowth,80.24 chs.
September 25,1907:At this cor.I set off 0° 37' S.on the
decl.arc;and,at 11h52' a.m.,l.m.t.,observe the sun on
the meridian;the resulting lat.is 37° 41' N.,which is
the proper lat.nearly.

Subdivision of T. 36 S., R. 9 W.-Continued.

Chains.

- S. $89^{\circ} 53' W.$ on a random line bet. secs. 18 and 19.
 40.00 Set temp. 1/4 sec. cor.
 70.60 Intersect W. bdy. of Tp. 2 lks. S. of the cor. of secs. 13, 18,
 19 and 24, heretofore described.
 Thence I run N. $89^{\circ} 54' E.$ on a true line bet. secs. 18
 and 19.
 Over mountainous land; through scattering timber and dense
 undergrowth.
 Ascend abruptly.
 3.26 Begin more gradual descent bears N. and S.
 7.25 Leave timber bears N. and S.
 11.26 Top of spur 250 ft. above sec. cor., bears NE and SW. Desc.
 30.60 Set a trachyte stone 14x8x4 ins., 9 ins. in the ground,
 for 1/4 sec. cor., marked 1/4 on N. face; and raise a mound
 of stone 2 ft. base 1 1/2 ft. high N. of cor.
 Continue descent along S. slope of ridge.
 45.30 Top of spur, 100 ft. below 1/4 sec. cor., bears N. $26^{\circ} W.$
 and S. $26^{\circ} E.$
 Continue descent over E. slope of ridge.
 54.25 Enter heavy aspen timber bears N. and S.
 55.80 Trail bears NW and SE.
 A corral bears N. about 4.00 chs. dist.
 59.25 Bottom of hollow, 250 ft. below spur, course SE.
 Ascend.
 62.00 Leave timber bears NW and SE.
 67.00 Top of knoll 150 ft. above hollow.
 Descend.
 70.60 The cor. of secs. 17, 18, 19 and 20, 50 ft. below top of knoll.
 Land mountainous.
 Soil, gravelly and stony; 3rd. and 4th. rate.
 Timber, aspen and pine.
 Undergrowth, oak, serviceberry and mahogany.

Subdivision of T.36 S., R.9 W.-Continued.

Chains

Good grass for grazing.

Mountainous or heavily timbered land or land covered with dense undergrowth, 70.60 chs.

September 25, 1907.

September 26, 1907: I return to the meridian established at the cor. of Tps. 36 and 37 S., R.9 W., heretofore described on August 28, 1907.

At 8^h52^m a.m., l.m.t., I set off 37° 38' N. on the lat. arc. 6° 57' S. on the decl. arc; and test the adjustments of my solar, finding it gives the same meridian as before, and adjustments correct.

September 26, 1907.

GENERAL DESCRIPTION:

This fractional township is mountainous in character; it embraces the breaks of Cedar or Coal Creek Canon on the E. and N., and lower ranges of mountains cut with deep ravines on the W. and S.; with the drainage of nearly the whole township toward the left hand fork of Cedar or Coal Creek. The head of the "breaks" however form a watershed which turns the surface drainage in the opposite direction.

The soil in the "breaks" is rocky, with very little vegetation; outside of the "breaks" the soil is a sand or clay

Subdivision of T.36 S., R.9 W.-Continued.

loam and gravelly, producing an abundance of undergrowth, shrubbery and grasses which afford good grazing.

In the roughest part of the "breaks" the timber is scattering, while on the more regular slopes in the "breaks" there are frequent stretches of heavy pine and aspen timber. On the lower ridges outside of the "breaks" except in the extreme westerly part of the township, there is an abundance of timber, consisting of pine, aspen, spruce and balsam; which are principally valuable for fencing and for fuel; although in the canons adjoining the "breaks" there is some saw timber and timber suitable for mining and building purposes.

No minerals of any kind nor mining locations were found in the township; although slight indications of coal were found in sec. 30 in the bottom of the creek crossing near the NE.cor. and in the gulch or chasm forming the left hand fork of Cedar or Coal Creek canon crossing the southerly part of the section not sufficient to return as coal land.

The township is well watered with the left hand fork of Cedar or Coal Creek and its numerous branches and a number of small springs with a few lakes distributed throughout the township.

These streams and springs are generally, clear, cold and sparkling, but there are several small milky streams seeping from the foot of high ledges near the head of the "breaks" from a grayish sticky clay soil ; these milky streams finally join and mix with the clearer streams.

During the stormy period streams of various hues or colors issue from the breaks carrying evidence of soils of various colors.

This township lies wholly within the Sevier Forest Reserve, and is under forest regulations.

The only route of travel through the "breaks" is over a steep, narrow and winding trail constructed by the

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and king the lines and corners described in the foregoing field notes of the survey of the tractl. division of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian. ing the respective capacities in which they acted:

Hillman Dalley, Chairman.
John A. Elliker, Chairman.
Maeser Dalley, Moundman.
John H. Lunt, Moundman.
Earl Gower, Axman.
John H. Lunt, Axman.
Walter Lunt, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all parts or portions of the tractl. Subdivision T. 36 S., R. 9 W., of the Salt Base and Meridien.

..... State of Utah, which are represented e foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the r monuments established, according to the instructions furnished by the United States Surveyor ral for Utah.

Hillman Dalley, Chairman.
John A. Elliker, Chairman.
Maeser Dalley, Moundman.
John H. Lunt, Moundman.
Earl Gower, Axman.
John H. Lunt, Axman.
Walter Lunt, Flagman.

cribed and sworn to before me this 30th
ay of September 1907 }

Senora C. Dalley
Notary Public



By Commonwealth Express
May 16th, A. D. 1911.

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and fixing the lines and corners described in the foregoing field notes of the survey of the fractl. division of T. 36 S., R. 9 E., of the Salt Lake Base and Meridian, during the respective capacities in which they acted:

Hillman Dalley Chairman.
John A. Elliker Chairman.
Maeser Palle Moundman.
John H. Lunt Moundman.
Earl Gower Axman.
John H. Lunt Axman.
Walter Lunt Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all parts or portions of the fractl. Subdivision T. 36 S., R. 9 E., of the Salt Base and Meridian.

..... State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley Chairman.
John A. Elliker Chairman.
Maeser Palle Moundman.
John H. Lunt Moundman.
Earl Gower Axman.
John H. Lunt Axman.
Walter Lunt Flagman.

scribed and sworn to before me this 30th day of September 1807

SEAL

My Commission Expires
May 16th, A.D. 1911.

Senora H. Dalley
Notary Public

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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, Mayhew H. Dalley, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 11th day of April 1901., I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the tract 1. Subdivision of T. 36 S., R. 9 W. of the Vcid.

For final oath of deputy see book "Z" T 35 S., R. 10 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 30th day of September 1907. }



My Commission Expires
May 16th, A. D. 1911.

Senora C. Dalle

Notary Public.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of the survey of the subdivisional lines of Township No. 36 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah,,

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office

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BOOK A-374

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Filed May 16/12
MJDC O R R E C T I V E
FIELD NOTES

Book "J" Original Notes

ON THE SURVEY OF THE

S U B D I V I S I O N

of

Township No. ³⁶ South, Range No. 9 West,of the Salt Lake Base and Meridian,
State of Utah.

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11th, 1901, #87

Survey commenced August 18th, 1910, #87

Survey completed August 27th, 1910, #87

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,

Chainman.

Edward H. Parry,

Chainman.

James A. Tweedie,

Moundman.

Edward H. Parry,

Moundman.

James A. Tweedie,

Axman.

Maeser Dalley,

Axman.

Maeser Dalley,

Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 36 South, Range 9 West.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Edward H. Parry
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist in
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and Meridian.

Hillman Dalley, Chainman

Edward H. Parry, Chainman

Subscribed and sworn to before me this 8th.

day of August, 1910., #¹⁸⁹



My Commission Expires

May 16th, A. D. 1911.

Lessora L. Dalley
Notary Public, Iron County, Utah.

WE, James A. Tweedie and Edward H. Parry

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey of
Subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and Meridian.

James A. Tweedie

Moundman

Edward H. Parry

Moundman

Subscribed and sworn to before me this 8th.

day of August, 1910., #¹⁸⁹



My Commission Expires

May 16th, A. D. 1911.

Lessora L. Dalley
Notary Public, Iron County, Utah.

WE, James A. Tweedie and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners
and other duties, according to instructions given us, to the best of our skill and ability, in the survey of
the Subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and Meridian.

James A. Tweedie

Axman

Maeser Dalley

Axman

Subscribed and sworn to before me this 8th.

day of August, 1910., #¹⁸⁹



My Commission Expires

May 16th, A. D. 1911.

Lessora L. Dalley
Notary Public, Iron County, Utah.

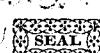
I, Maeser Dalley,

do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
corrective survey of the
Subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and
Meridian.

Maeser Dalley, Flagman

Subscribed and sworn to before me this 8th.

day of August, 1910., #¹⁸⁹



My Commission Expires

May 16th, A. D. 1911.

Lessora L. Dalley
Notary Public, Iron County, Utah.

Corrective Survey of Subdivision of T.36 S., R.9 W.

Chains.

Corrective Survey commenced August 18, 1910, and executed with the same Instrument used in the Corrective Retracement and Resurvey of the West Boundary of this Tp., and described in the field notes thereof.

I examine the adjustments of the Transit and correct the level and collimation errors; then to test the solar apparatus I return to the meridian established at the cor. of Tps. 36 and 37 S., Rs. 9 and 10 W., heretofore described, on August 13, and 14, 1910.

August 18, 1910: At 8h 4m a.m., l.m.t., I set off $37^{\circ} 38'$ N. on the lat.arc; $13^{\circ} 17'$ N. on the decl.arc; and determine a meridian with the solar at the above described Tp.cor., finding it gives the same meridian as before and adjustments correct.

August 18, 1910: At 10h 4m a.m., l.m.t., I set off $37^{\circ} 38'$ N. on the lat.arc; $13^{\circ} 15'$ N. on the decl.arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35, on S.bdy. of Tp. heretofore described in the Notes of N.bdy. of T. 37 S., R. 9 W.,

Thence I run

N. $0^{\circ} 1'$ W. retracing line bet. secs. 34 and 35. See original notes, book "J" page 8.

40.00 Fall 1 lk.E. of the $\frac{1}{4}$ sec.cor. bet. secs. 34 and 35, as set in original survey of this line.

80.00 The cor. of secs. 26, 27, 34 and 35, as set in original survey of this line.

Note:-There is no change in topography from that

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

given in the original notes thereof.

August 18, 1910: At the cor. of secs., 3, 4, 33 and 34, on S.bdy. of Tp. described in notes of N.Bdy. of Tp. 37 S.R. 9 W., contract No 321, executed ^{by myself,} set off $13^{\circ}13'$ N. on the decl. arc; and, at 0h¹4m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}38'N.$, which is the proper lat. nearly.

Thence I run

N. $0^{\circ}2'$ W. on Corrective Survey line bett. secs. 33 and 34.

40.00 The $\frac{1}{4}$ sec. cor. bet. secs. 33 and 34 as set in original survey of this line.

80.00 Set a white sandstone 18x8x8 ins. 12 ins. in the ground, for cor of secs. 27, 28, 33 and 34, marked with 1 notch on S. and 3 notches on E. edges ; from which

A balsam .24 ins. dia., bears N. $88\frac{1}{2}^{\circ}$ E. 68 lks. dist.,
mkd. T 36 S R 9 W S 27 B.T.

An aspen 6 ins. dia., bears S. $31\frac{1}{4}^{\circ}$ E. 96 lks. dist.,
mkd. T 36 S R. 9 W. S 34 B T.

A red pine 12 ins. dia., bears S. $13\frac{3}{4}^{\circ}$ W. 130 lks. dist.,
mkd. T 36 S R 9 W S 33 B T.

A balsam 12 ins. dia. bears N. $13\frac{1}{4}^{\circ}$ W. 26 lks. dist.,
mkd T 36 S R 9 W S 28 B T.

Note:-The old cor. of secs. 27, 28, 33 and 34 set in original survey of subdivisions of this Tp. bears S. 22 lks. dist.,

I destroy all traces of this old cor.

the original
notes book "J"
page 17.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Note:-The topography agrees with that given in the original notes of this survey.

40.00

N. $89^{\circ}54'W$.on corrective survey line bet. secn. 27 and 34. See orig. notes Book "J" page 18.

Note:-There is no change in topography from that given in the original notes of this line.

40.00

N. $0^{\circ}3'W$.on corrective survey line bet. secn. 27 and 28. See orig. notes Book "J" page 20.

The point for corner stationary sandstone boulder was not in the original survey of the subdivisions of this sp.

Note:-The notes on this line are the same as given in the original survey thereof.

August 18, 1910.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

See original
notes book "J"
page 2240.10

80.20

40.10

80.20

Chains.

August 19, 1910: At 8h 4m a.m., l.m.t., I set off $37^{\circ}40'N.$ on the lat.arc; $12^{\circ}57'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs.21, 22, 27 and 28, heretofore described.

Thence I run

$N.89^{\circ}51'E.$ bet. secs.22 and 27 on corrective survey line.

The $\frac{1}{4}$ sec.cor.as set in original survey of this line.

Fall 30 lks.N. of the cor.of secs.22, 23, 26 and 27, as set in the original survey of the subdivisions of this Tp.

Thence I run

$N.89^{\circ}56'W.$ on a true corrective survey line betsecs. 23 and 27.

Set a sandstone 14x10x4 ins., 9 ins.in the ground, for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on N.face;from which

A pine 10 ins.dia., bears $N.53\frac{1}{2}^{\circ}W.7$ lks.dist., mkd. $\frac{1}{4}$ S 22 B T.

A pine 5 ins.dia., bears $S.20^{\circ}E.31$ lks.dist., mkd. $\frac{1}{4}$ S 27 B T.

Note:-The $\frac{1}{4}$ sec.cor.set in the original survey of this line bears N.15 lks.dist.,

I destroy all traces of this cor.

The cor.of secs.21, 22, 27 and 28.

Note:-There is no change in topography on this line from that given in the original survey thereof.

August 19, 1910:At the noon hour the sky is overcast and solar observations are impossible.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains		See original Note back "J" page 22.
40.00	Fall 18 lks. W. of the $\frac{1}{4}$ sec.cor bet.secs.21 and 22, as set in the original survey of this line.	
84.44	Fall 39 lks. W. of the cor.of secs.15,16,21 and 22, as set in the original survey of subdivisions of this Tp. Thence I run S.0°11'W.on a true corrective survey line bet.secs. 21 and 22.	
44.44	Set a limestone 18x14x7 ins., 12 ins.in the ground, for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ S on W.face;from which A pine 7 ins.dia., bears S.27 $\frac{3}{4}$ °E.87 lks.dist., mkd. $\frac{1}{4}$ S 22 B T. A pine 16 ins.dia., bears S.25°W.308 lks.dist., mkd. $\frac{1}{4}$ S 21 B T. Note:-The $\frac{1}{4}$ sec.cor.bet secs.21 and 22 bears E.30 lks.dist., I destroy all traces of this cor.	
84.44	The cor.of secs.21,22,27 and 28. Note:-The topography on this line is practically the same as given in the original notes thereof.	
		August 19, 1910.
		August 20, 1910:At 8h 3m a.m., l.m.t., I set off 57°38' N.on the lat.arc;12°38'N.on the decl.arc;and determine a meridian with the solar,at the cor.of secs.4,5,32 and 33, on S.bdy.of Tp.,as set in corrective survey of N.bdy.of T.37S.,R.9 W.,described in Contract No.321, executed by myself. Thence I run

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains

See original notes

Book "J", page 31. N.0°3' W.on corrective survey line bet secs.32 and 33.

40.00 Set a yellow sandstone 18x12x5 ins., 12 ins.in the ground
for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face;from which
A balsam 9 ins.dia., bears S.65 $\frac{1}{2}$ °E.14 lks.dist.,
mkd. $\frac{1}{4}$ S 33 B T.

A balsam 24 ins.dia., bears N.48 $\frac{3}{4}$ °W.53 lks.dist.,
mkd. $\frac{1}{4}$ S 32 B T.

Note:-The $\frac{1}{4}$ sec.cor.set in original survey of this
line bears E.120 lks.dist.

I destroy all traces of this cor.

80.00 Set a sandstone 16x8x8 ins., 11 ins.in the ground, for
the cor.of secs.28,29,32 and 33,mkd.with 1' notch on
S. and 4' notches on East edges;from which
A yellow pine 20 ins.dia., bears N.20 $\frac{1}{2}$ °E.24 lks.dist.,
mkd. T 36 S R 9 W S 28 B T.

A red pine 30 ins.dia., bears S.43°E.50 lks.dist.,
mkd. T 36 S R 9 W S 33 B T.

A yellow pine 16 ins.dia., bears S.20 $\frac{1}{2}$ °W.29 lks.dist.,
mkd. T 36 S R 9 W S 32 B T.

An aspen 6 ins.dia., bears N.34 $\frac{1}{2}$ °W.43 lks.dist.,
mkd. T 36 S R 9 W S 29 B T.

Note:-The cor.of secs. 28,29,32 and 33, bears S.70°E.
120 lks.dist.,

I destroy all traces of this cor.

Note:-The topography of this line practically agrees
with the original survey thereof.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains

N.89°53'E.on corrective survey random line bet.secs.

28 and 33.

See original
notes book "J"
page 30.40.00 Set temp. $\frac{1}{4}$ sec.cor.80.14 Fall 28 lks.N.of the cor.of secs.27,28,33 and 34,
heretofore described.

Thence I run

N.89°55'W.on true corrective survey line bet.secs.28
and 33.Over mountainous land;through heavy timber and dense
undergrowth.

Descend.

4.00 Bottom of canon, 50 ft.below the sec.cor., course N.

Ascend.

10.70 Top of ridge 200 ft.above bottom of canon,bears N.
and S.

Descend.

12.75 Bottom of hollow,100 ft.below ridge, course N.

Ascend.

34.50 Top of ridge,80 ft.above hollow,bears N. and S.

Descend.

36.50 Bottom of hollow,80 ft.below ridge, course N.

Ascend.

40.07 Set a sandstone 18x10x4 ins.,12 ins.in the ground,
for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on N.face;from whichA red pine 6 ins.dia.,bears N.27 $\frac{1}{2}$ °E.20 lks.dist.,mkd. $\frac{1}{4}$ S 28 B T.

A yellow pine 50 ins.dia.,bears S.80°W.38 lks.dist.,

mkd. $\frac{1}{4}$ S 33 B T.Note:-The old $\frac{1}{4}$ sec.cor.set in the original survey
of this line bears S.70 $\frac{1}{2}$ °E.64 lks.dist.,

I destroy all traces of this cor.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- Fred Ashdown's cabin bears N. $45\frac{1}{2}$ ^oE. about 33.50 chs. dist., From cabin his corral bears N. about 1.00 ch. dist., And small enclosed garden patch adjoining the house. on the W. about 50 lks. wide E. and W., and about 75 lks. long N. and S., enclosed with a fence.
- 40.50 Top of ridge, 100 ft. above hollow, bears N. and S. Descend.
- 45.00 Bottom of hollow, 100 ft. below ridge, course N. Ascend.
- 51.50 Top of ridge, 80 ft. above hollow, bears N. and S. Descend.
- 56.20 Bottom of hollow, 80 ft. below ridge, course N. Ascend.
- 80.14 The cor. of secs. 28, 29, 32 and 33, about 200 ft. below $\frac{1}{4}$ sec. cor. Land mountainous. Soil, gravelly loam and rocky; 2nd. and 4th. rate. Timber, pine, aspen and spruce. Undergrowth, larch and oak. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.14 chs. August 20, 1910: At this cor. I set off $12^{\circ}34'$ N. on the decl. arc; and, at 0h 3m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}39'$ N., which is the proper lat. nearly.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

- N.0°3'W.on corrective survey line betsecs.28 and 29.
Over mountainous land;through scattering pine and
aspen timber, and dense undergrowth. Sec original notes
book "J" page 34.
Descend abruptly.
- 5.50 Wash in canon 200 lks.wide, 6 ft.deep, course S.80°W.
5.20 Old road bears N.80°E. and S.80°W.
7.30 Left hand fork of Coal Creek, 10 lks.wide, 6 ins.deep,
rapid current, rocky bottom, clear fresh water, in
bottom of canon, 100 ft.below the sec.cor.in wash 8 ft.
deep, 1.00 ch.wide, course S.80°W.
Ascend from bottom of canon.
About 25 lks.East of line, junction of creek, 2 lks.
wide 1. in.deep, in hollow, with course S.80°W.
11.00 Leave canon bottom and ascend more abruptly bears
N.80°E. and S.80°W.
40.00 Set a yellow sandstone 14x14x5 ins., 9 ins.in the ground,
for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on W.face;from which
A red cedar 8 ins.dia., bears S.53 $\frac{1}{2}$ °W.57 lks.dist.,
mkd $\frac{1}{4}$ S 29 B T.
A yellow pine 12 ins.dia., bears N.8°E.50 lks.dist.,
mkd $\frac{1}{4}$ S 28 B T.
Note:-The $\frac{1}{4}$ sec.cor.betsecs.28 and 29, set in original
survey of this line,bears S.41 $\frac{1}{2}$ °E.163 lks.dist.,
I destroy all traces of this cor.
46.10 Top of ridge,800 ft.above canon bottom bears E and W.
Descend.
51.10 Bottom of hollow 150 ft.below top of ridge, course S.
80°E.
Ascend.
67.20 Top of ridge 350 ft.above hollow bears E. and W.
Descend.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

80.00 Set a yellow sand stone 12x12x6 ins., 8 ins.in the ground, for cor.of secs.20,21,28 and 29., mkd.with 2' notches on S. and 4' notches on E.edges;from which

A red pine 12 ins.dia., bears N. $44\frac{3}{4}$ ^oE.19 lks.dist.,
mkd.T 36 S R 9 W S 21 B T..

A balsam 14 ins.dia., bears S. $23\frac{1}{4}$ ^oE.49 lks.dist.,
mkd.T 36 S R 9 W S 28 B T..

A balsam 7 ins.dia., bears S. $71\frac{1}{4}$ ^oW.48 lks.dist.,
mkd.T 36 S R 9 W S 29 B T..

A yellow pine 30. ins.dia., bears N. $31\frac{1}{2}$ ^oW.24 lks.dist.,
mkd.T 36 S R 9 W S 20 B T..

The cor.of secs.20,21,28 and 29, set in original survey
of. the subdivisions of this Tp., bears S. 45° E.180 lks.
dist..

I destroy all traces of this cor..

This cor.is.150 ft.below top of ridge.

Land Mountainous..

Soil,gravelly;3rd.rate.

Timber,pine,spruce,aspen,cedar and junipher.

Undergrowth,oak,serviceberry and junipher brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered
with dense undergrowth,80.00 chs.

S. $89^{\circ}55'$ E.on random corrective survey line betsecs.
21 and 28..

40.00

Set temp. $\frac{1}{4}$ sec.cor.

Sec origi
notes bo
page 38.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
60.16	Intersect N. and S. line 19 lks. N. of the cor. of secs. 21, 22, 27 and 28. Thence I run . N. 89° 47' W. on true corrective survey line, bet. secs. 21 and 28. Over mountainous land; through heavy timber and scattering undergrowth. Descend abruptly.
58.00	Creek 1 lk. wide 2 ins. deep, in hollow 600 ft. below the sec. cor., course SW. Ascend.
40.08	Set a gray sandstone 14x10x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; from which A yellow pine 10 ins. dia., bears N. 12° E. 45 lks. dist., mkd. $\frac{1}{4}$ S 21 E T. A balsam 6 ins. dia., bears S. 31° W. 59 lks. dist., mkd. $\frac{1}{4}$ S 23 E T. Note:- The $\frac{1}{4}$ sec. cor. bet. secs. 21 and 28, set in the original survey of this line bears S. 51° E. 170 lks. dist., I destroy all traces of this cor.
42.00	Top of spur, 50 ft. above creek bears N. 20° E. and S. 20° W. Descend.
44.50	Creek 1 lk. wide 2 ins. deep, in hollow 50 ft. below spur, course S. 20° W. Enter dense undergrowth bears N. 20° E. and S. 20° W. Ascend.
51.60	Ravine 25 ft. deep, course SE.. Continue ascent.
63.30	Top of ridge 300 ft. above creek bears NE and SW.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Leave dense and enter scattering undergrowth bears .

NE and SW.

Descend.

80.16 Cor.of secs.20,21,28 and 29,125 ft. below ridge.

Land mountainous.

Soil, gravelly and stony; 3rd. and 4th. rate.

Timber, pine, balsam, spruce and aspen.

Undergrowth, oak, serviceberry and juniper.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.16 chs.

August 20, 1910.

August 22, 1910: At 8h 3m a.m., l.m.t., I set off $37^{\circ}42'$ N. on the lat. arc; $11^{\circ}58'$ N. on the decl. arc; and determine a meridian with the solar at the Witness cor. to cor. of secs. 8, 9, 16 and 17, set at $S.0^{\circ}3' E. 75.60$ chs. from the cor. of secs. 4, 5, 8 and 9, which was a volcanic stone $8 \times 10 \times 5$ ins. above ground, firmly ^{set} marked and witnessed as described by the Surveyor General; and which I destroyed in original survey of subdivision of this Tp.

Thence I run ..

S. $0^{\circ}3'$ E. on a true corrective survey line completing the line bet. secs. 8 and 9.

(Measurements counted from cor. of secs. 4, 5, 8 and 9.

Over mountainous land; through scattering timber.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains	Descend abruptly over ledges.
78.75	Top of almost perpendicular ledges 500 ft. high bears N. 80° E. and S. 80° W.
80.00	Foot of ledges 500 ft. below top of ledges, bears N. 80° E. and N. 80° W. Set a sandstone 14x12x12 ins., 10 ins. in the ground, for cor. of secs. 8, 9, 16 and 17, mkd. with 4 notches on S. and 4 notches on E. edges; from which A red pine 12 ins. dia., bears N. 89° E. 83 lks. dist., mkd. T 36 S R 9 W S 9 B T.
	A red pine 16 ins. dia., bears S. $74\frac{1}{4}^{\circ}$ E. 70 lks. dist., mkd. T 36 S R 9 W S 16 B T.
	A red cedar 14 ins. dia., bears S. $48\frac{1}{2}^{\circ}$ W. 34 lks. dist., mkd. T 36 S R 9 W S 17 B T.
	A red pine 6. ins. dia., bears N. $89\frac{1}{2}^{\circ}$ W. 93 lks. dist., mkd. T 36 S R 9 W S 8 B T.
	Note:-The cor. of secs. 8, 9, 16 and 17, set in the original survey of this line bears S. 45° E. 34 lks. dist. I destroy all traces of this cor.
	Land mountainous and very rough.
	Soil, rocky; 4th. rate.
	Timber, pine and spruce.
	Mountainous land, 4.40 chs.
	S. $89^{\circ}58'$ E. on a random corrective survey line bet. secs. 9 and 16. See original notes Book "J", page 38.
40.00	Set temp $\frac{1}{4}$ sec. cor..
80.20	Intersect N. and S. line 9 lks. N. of the cor. of secs. 9, 10, 15 and 16, as set in the original survey of the

Corrective Survey of Subdivision of T.36 S.R.9 W.-Continued.

	Chains.	<p>Subdivision of this Tp.</p> <p>Thence I run</p> <p>N.$89^{\circ}54'$W.on true corrective survey line bet.secs.9 and 16.</p>
40.10		<p>Point for $\frac{1}{4}$ sec.cor.falls on stationary sandstone boulder 20x10x2$\frac{1}{2}$ ft.above ground, on which I cut a cross (X) at the exact cor.point for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on N.side of cross (X);from which</p> <p>A red pine 8 ins.dia., bears N.$38^{\circ}W.38$ lks.dist., mkd.$\frac{1}{4}$ S 9 B T.</p> <p>A red cedar 18 ins.dia., bears S.$54^{\circ}W.25$ lks.dist., mkd.$\frac{1}{4}$ S 16 B T.</p> <p>Note:-The point for $\frac{1}{4}$ sec.cor.as set in original survey bears N.$45^{\circ}W.10$ lks.dist.,</p> <p>I destroy all traces of this cor.point.</p>
80.20.		<p>The cor.of secs.8,9,16 and 17.</p> <p>Note:-The topography on this line agrees with the original notes thereof.</p> <p>August 22,1910:At this cor.I set off $11^{\circ}54'N$.on the decl.arc;and,at 0h 3m p.m.,l.m.t.,observe the sun on the meridian;the resulting lat.is $37^{\circ}42'N.$,which is the proper lat.nearly.</p>
original notes book "J" page 39. age 39.90		<hr/> <p>N.$89^{\circ}54'$W.on corrective survey line bet.secs.8 and 17. Fall 7 lks.N.of the $\frac{1}{4}$ sec.cor.bet.secs.8 and 17., heretofore described.</p> <p>Note:-The course of this line therefore is W.39.90 chs.</p>

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Note:-There is no change in topography on this line.

From the cor.of secs.8,9,16 and 17, heretofore described.

I run

See original
notes, book "J"
page 40.

S.025°E.on corrective survey line bet:secs.16 and 17.

40.00 Set a sandstone 20x8x6 ins., 15 ins.in the ground, for
 $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on W.face;from which

A yellow pine 30 ins.dia., bears S.34°E.146 lks.

dist., mkd. $\frac{1}{4}$ S 16 B.T.

An aspen 8 ins.dia., bears N.70°W., 56 lks.dist.,
mkd. $\frac{1}{4}$ S 17 B.T.

Note:-The $\frac{1}{4}$ sec.cor.bet.sec.16 and 17, set in the
original survey of subdivision of this Tp., bears S.
50°E.60 lks.dist.,

I destroy all traces of this cor..

50.00 Set a sandstone 20x10x5 ins., 15 ins.in the ground,
for cor.of secs.16,17,20 and 21,marked with 3 notches
on S. and 4 notches on E.edges;from which

A balsam 4 ins.dia., bears N.30°E.12 lks.dist.,
mkd.T 36 S R 9 W S 16 B.T.

A balsam 5 ins.dia., bears S.36 $\frac{1}{2}$ °E.22 lks.dist.,
mkd.T 36 S R 9 W S 21 B.T.

A balsam 12 ins.dia., bears S.29 $\frac{3}{4}$ °W., 18 lks.dist.,
mkd. T 36 S R 9 W S 20 B.T.

A red pine 8 ins.dia., bears N.44°W.16 lks.dist.,
mkd.T 36 S R 9 W S 17 B.T.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Note:-The cor. of secs. 16, 17, 20 and 21, set in the original survey of the subdivision of this Tp., bears S.80°E. 85 lks. dist..

I destroy all traces of this cor..

Note:-There is no change in the topography from that given in the original notes of the subdivision of this Tp.

S.89°52'E. on random corrective survey line bet. secs. 16 and 21.

- 40.00 Set temp $\frac{1}{4}$ sec.cor. See orig. notes b page
- 80.12 The cor. of secs. 15, 16, 21 and 22, as set in the original survey of the subdivision of this Tp.
- Thence I run
- N.89°52'W. on a true line bet. secs. 16 and 21.
- Over mountainous land; through scattering timber.
- Descend abruptly.
- 9.00 Top of perpendicular ledge 50 ft. high bears NW and SE.
- 11.15 Creek 2 lks. wide 2 ins. deep in ravine 200 ft. below sec.cor, course N.70°W.
- Enter heavy timber bears NW and SE.
- Ascend.
- 18.50 Top of spur 150 ft. above creek bears N.20°W. and S. 20°E.
- Descend.
- 40.06 Set a sandstone 16x10x4 ins., 11 ins. in the ground,

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

for $\frac{1}{4}$ Sec.cor.marked $\frac{1}{4}$ on N.face; from which

An aspen 5 ins.dia., bears N. 17° E. 21 lks.dist.,
mkd. $\frac{1}{4}$ S 16 B T.

An aspen 7 ins.dia., bears S. $53\frac{1}{2}^{\circ}$ W., 8 lks.dist., mkd.
 $\frac{1}{4}$ S 21 B T.

Note:-The $\frac{1}{4}$ Sec.cor., betsecs.16 and 21 set in the
original survey of this line, bears E.42 lks.dist.

I destroy all traces of this cpr.

This cor.is about 100 ft.below spur.

45.50 Creek 4 lks.wide 3 ins.deep, in bottom of hollow, 200
ft.below $\frac{1}{4}$ sec.cor., course SW.

Enter dense undergrowth bears NE and SW.

Ascend.

49.10 Top of spur 110 ft.above creek bears N.and S.

Descend.

52.00 Bottom of hollow 100 ft;below spur, course SE.

Ascend..

73.40 Top of ridge 200 ft.above ravine bears NE and SW.

Descend.

80.12 The cor.of secs.16,17,20 and 21, 100 ft.below ridge,
Land mountainous.

Soil, gravelly and stoney; 3rd.and 4th.rate.

Timber,pine,balsam,spruce,aspen and mahogany.

Undergrowth,oak and mahogany with willows along
creek banks.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered
with dense undergrowth,80.12 chs.

August 22, 1910.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

August 23, 1910: At 8h 3m a.m., l.m.t., I set off $37^{\circ}41'N.$
on the lat.arc; $11^{\circ}38'N.$ on the decl.arc; and determine
a meridian with the solar at the cor.of secs. 16, 17,
20 and 21.

Thence I run

$S.0^{\circ} 11'W.$ on a random corrective survey line bet secs.
20 and 21.

Set temp. & sec.cor.

Intersect E. and W. line 7 lks.E. of the cor.of secs.
20, 21, 28 and 29.

Thence I run

$N.0^{\circ} 14'E.$ on a true corrective survey line bet.secs.
20 and 21.

Over mountainous land; through scattering timber and
dense undergrowth.

Descend.

4.00 Bottom of hollow, 150 ft. below the sec.cor., course W.

Ascend.

7.00 Top of ridge 100 ft. above hollow, bears E. and W.

Descend.

12.00 Bottom of hollow 40 ft. below top of ridge, course W.

Ascend.

23.00 Top of spur 75 ft. above hollow, bears E. and W.

Descend abruptly.

28.30 Creek 3 lks.wide, 2 ins.deep, in bottom of steep canon,
140 ft. below top of ridge, course S. $80^{\circ}W.$

Ascend abruptly.

32.00 Top of ridge 150 ft. above creek bears N. $80^{\circ}E.$ and S.
 $80^{\circ}W.$

Descend.

See original
notes, book "J"
page 43.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
32.50	Trail bears NE and SW.
40.00	Set a yellow sandstone 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; from which A red pine 16 ins. dia., bears N. $12\frac{1}{4}^{\circ}$ E., 50 lks. dist., mkd. $\frac{1}{4}$ S.21 B.T. A yellow pine 14 ins. dia., bears S. $48\frac{3}{4}^{\circ}$ W., 23 lks. dist., mkd. $\frac{1}{4}$ S 20 B.T.
	Note:-The $\frac{1}{4}$ sec.cor. bet. secs. 20 and 21, bears S. 40° E. 100 lks. dist., This cor.set in original survey of this line. I destroy all traces of this cor.
50.30	Creek 8 lks. wide, 3 ins. deep, rapid current, rocky bottom, in bottom of canon, 100 ft. below $\frac{1}{4}$ sec.cor., course S. 30° W. Ascend abruptly through heavy timber.
75.50	Top of ridge 400 ft. above creek, bears NE and SW. Descend.
84.08	Cor.of secs. 16, 17, 20 and 21, 150 ft. below top of ridge. Land mountainous. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, pine, cedar, spruce, balsam, aspen, and juniper. Undergrowth, oak and juniper. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 84.08 chs. August 23, 1910: At this cor. I set off $11^{\circ}34'$ N. on the decl.arc; and at 0h' 3m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}41'$ N., which is the proper lat. nearly.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

From cor.of secs.5,6,31 and 32, on S.bdy.of tp.
 xxxxxxxxxx described in notes of corrective survey
 of N.bdy.of T.37 S.,R.9 W., Cont.No.321, executed by
 myself, I run.

N.0°3'W.bet.secs.31 and 32.

Over mountainous land;through scattering timber and
 dense undergrowth.

Descend.

2.85 Crystal Creek,5 lks.wide 6 ins.deep,in bottom of canon
 30 ft.below the sec.cor.,course N.80°W.

Ascend.

5.35 Trail bears NW and SE.

7.55 Trail bears N.80°W. and S.80°E.

9.00 Begin steep ascent bears N.80°W. and S.80°E.

23.50 Top of ridge 500 ft.above Creek,bears NW and SE.

From this point Thomas Webster's cabin on Crystal
 Creek,bears S.68°W.about 51.00 chs.dist.,

His corral is E.of house about 1.00 ch.dist.,

Leave dense undergrowth and enter scattering under-
 growth bears NW and SE.

Enter heavy timber bears NW and SE.

Descend.

40.00 Set a yellow sandstone 16x10x6 ins.,11 ins.in the
 ground,for $\frac{1}{4}$ sec.cor.,mkd. $\frac{1}{4}$ on W.face;from which

A balsam 16 ins.dia.,bears N.49 $\frac{1}{2}$ °E.,72 lks.dist.,
 mkd. $\frac{1}{4}$ S.32 B.T..

A balsam 12 ins.dia.,bears S.39°W.,100 lks.dist.,
 mkd. $\frac{1}{4}$ S.31 B.T..

Note:-The $\frac{1}{4}$ sec.cor.bet.secs.31 and 32, set in original
 survey of this line bears S.88 $\frac{1}{2}$ °E.2.00 chs.dist.,

I destroy all traces of this cor.

See original
 notes,book "J"
 page 45.

Corrective Survey of Subdivision T.36 S., R.9 W.-Continued.

Chains.	
	This cor. is 200 ft. below ridge.
65.80	Leave heavy timber and enter scattering timber and dense undergrowth, bears E. and W.
70.80	N.end of small fenced garden containing about 1/3 acre, belonging to George Ashdown, bears E. 125 lks. dist.,
74.80	Trail bears NW and SE.
75.00	Enter heavy timber and leave dense undergrowth, bears E. and W.
75.90	Old road bears N. 20°W and S. 20°E.
80.00	Set a yellow sandstone 16x12x10 ins., 11 ins. in the ground, for cor. of secs. 29, 30, 31 and 32, marked with 1 notch on S. and 5 notches on E.edges; from which An aspen 6 ins.dia., bears N. 38 $\frac{3}{4}$ °E., 40 lks.dist., mkd.T 36 S R 9 W S 29 B T.
	An aspen 14 ins.dia., bears S. 59 $\frac{1}{4}$ °E., 17 lks.dist., mkd.T 36 S R 9 W S 32 B T.
	An aspen 7 ins.dia., bears S. 42 $\frac{1}{4}$ °W., 53 lks.dist., mkd.T 36 S R 9 W S 31 B T.
	An aspen 8 ins.dia., bears N. 48 $\frac{1}{2}$ °W., 26 lks.dist., mkd.T 36 S R 9 W S 30 B T.
	The cor.of secs. 29, 30, 31 and 32, set.in original survey of subdivision of this Tp.bears S. 78 $\frac{1}{2}$ °E. 2.00 chs.dist., I destroy all traces of this cor.
	This cor.is 300 ft. below $\frac{1}{4}$ sec.cor.
	Land mountainous.
	Soil, gravelly and loam. 3rd.and 2nd.rate.
	Timber, pine, balsam and aspen.
	Undergrowth, oak and serviceberry.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, \$0.00 each.

August 23, 1910.

August 24, 1910: At 8h 2m a.m., l.m.t., I set off $37^{\circ}39'$ N. on the lat.arc; $11^{\circ}18'$ N. on the decl.arc; and determine a meridian with the solar at the cor.of secs. 29, 30, 31 and 32.

Thence I run $89^{\circ}53'$ E. on a random corrective survey line bet.secs. 29 and 32.

Set temp. of sec.cor.,

Intersect N. and S.line 2 1km. N. of the cor.of secs. 28, 29, 32 and 33.

Thence I run

 $89^{\circ}54'$ W. on a true corrective survey line bet.secs. 29 and 32.

Over mountainous land; through heavy timber and scattering undergrowth.

Descend.

Road bears NW and SW.

Foot of descent, 100 ft. below sec.cor. bears NW and SW. Enter bottom of broad hollow.

Leave heavy and enter scattering timber bears NW and SW.

Enter dense undergrowth bears NW and SW.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
5.00	Creek 3 lks.wide 3 ins.deep, course NW.
32.20	Leave bottom of hollow, bears N. and S. 85° E.
32.40	Enter heavy timber bears N. and S.
	Ascend.
40.08	Set a yellow sandstone 16x8x4 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face;from which A red pine 24 ins.dia., bears N. 5° E.61 lks.dist., mkd. $\frac{1}{4}$ S 29 B T.
	. A balsam 8 ins.dia., bears S. $49\frac{3}{4}^{\circ}$ E.12 lks.dist., mkd. $\frac{1}{4}$ S. 32 B T.
	Note:- The $\frac{1}{4}$ sec.cor.betsecs.29 and 32, set in original survey of this line bears S 75° E.164 lks.dist., I destroy all traces of this cor.
	From this cor., Henry Ashdown's cabin bears N. 31° E., about 10.50 chs.dist.,
	From the cabin stable bears E.about 2.00 chs.dist., A reservoir bears N.about 1.00 ch.dist.;Corral bears N.about 2.00 chs.dist.;A granary bears Westerly about 1.00 ch.dist.;a corral S.about 3.00 chs.dist.,
	From this cor., a saw mill owned by George Ashdown's heirs bears N. $15\frac{1}{2}^{\circ}$ E.about 8.50 chs.dist.,
70.50	Top of ridge 200 ft.above $\frac{1}{4}$ sec.cor., bears N.and S.. Descend.
79.06	Creek 2 lks.wide 1 in.deep. in hollow, 300 ft.below ridge, course N.
	Ascend.
80.16	The cor.of secs.29,30,31 and 32. Land mountainous and level. bottom. Soil, gravelly;3rd.rate. Timber, pine, aspen, spruce and balsam. Undergrowth, oak and serviceberry.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Good grass for grazing..

Mountainous or heavily timbered land, or land covered with dense undergrowth; 30.16 chs.

See original notes book "J" page 48.

S.89°53'W.on a true corrective sur.line bet.secs.30 and 31

Over mountainous land; through scattering timber and dense undergrowth.

Ascend..

.25 Trail bears NE and SW.

5.00 Trail bears NW and SE..

10.70 Top of ridge 150 ft.above hollow bears N. and S.

Descend gradually..

17.00 Begin abrupt descent bears N. and S.

24.00 Bottom of hollow 150 ft.below ridge, course N.

Ascend..

35.50 Top of ridge, 100 ft.above hollow bears N. and S.

Descend gradually..

40.00 Set a yellow sandstone 16x12x8 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from whichAn oak 4 ins.dia., bears N. $61\frac{1}{2}^{\circ}$ E. 39 lks.dist.,
mkd. $\frac{1}{4}$ S 30 B T.An oak 6 ins.dia., bears S. $33\frac{1}{4}^{\circ}$ E., 49 lks.dist.,
mkd. $\frac{1}{4}$ S 31 B T.

Note:-The $\frac{1}{4}$ sec.cor.bet.secs.30 and 31, set in original survey of this line bears S. 80° E. 230 lks.dist., I destroy all traces of this cor.

46.00 Begin abrupt descent bears N. and S.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
59.50	Road bears NE and SW.
69.14	Top of breaks on S.side of left hand fork of Coal Creek canon. It is impossible to chain further on this line, therefore I set a sandstone 20x12x4 ins., 15 ins.in the ground, for witness cor.to closing cor.of secs.30 and 31, marked WC and CC on E.;with 5 grooves on N. and 1 groove on S.faces;from which A pine 12 ins.dia., bears N.64 $\frac{1}{2}$ °W.15 lks.dist., mkd.WC T 36 S R 9 W S 30 B T. A balsam 5 ins.dia., bears S.22 $\frac{1}{2}$ °E., 35 lks.dist., mkd. WC T 36 S R 9 W S 31 B T. Note:-The witness cor.to closing cor.of secs.30 and 31, set in original survey of this line bears S.72 ° W.39 lks.dist., I destroy all traces of this cor. In order to pass around ledges I offset as follows: South 4.91 chs.;then on offset line S.89°53'W.3.27 chs.;which added to 69.14 chs. makes
72.41	Intersect W.bdy.of Tp.at the witness cor.to cor.of secs.25 and 36, heretofore described. Land mountainous. Soil, gravelly;3rd.rate. Timber,pine,aspen,balsam and spruce. Undergrowth,oak,serviceberry and chokecherry. Good grass for grazing. Mountainous land or land covered with dense undergrowth, 72.41 chs. August 24,1910:At the noon hour the sky is overcast and solar observations are impossible.

. Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

See original
notes book
"J", page 49.

	Chains.
	North $0^{\circ}3'W$. bet. secs. 29 and 30.
	Over mountainous land; through scattering timber and dense undergrowth..
	Ascend.
9.00	Road bears $N.70^{\circ}W$. and $S.70^{\circ}E$.
	At 1.00 ch.E.of this point, road bears N.
12.50	Bottom of hollow, 100 ft. below sec.cor., course $N.10^{\circ}W$.
	Ascend.
15.00	Top of spur 30 ft. above hollow, bears NW and SE.
	Descend.
19.60	Top of perpendicular ledge 60 ft. high, bears $N.60^{\circ}W$. and $S.60^{\circ}E$.
20.00	Left hand fork of Coal Creek 15 lks.wide, 6 ins.deep, rapid current, rocky bottom, in bottom of left hand fork of Coal Creek canon, 100 ft. below spur, course $N.60^{\circ}W$.
	Ascend.
20.60	Foot of perpendicular ledge 50 ft. high bears $N.60^{\circ}W$. and $S.60^{\circ}E$.
	Ascend abruptly.
35.00	Top of ridge 500 ft. from canon bottom, bears $N.60^{\circ}E$. and $S.60^{\circ}W$.
	Descend.
40.00	Set a yellow sandstone 20x12x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ on W.face; from which An oak 4 ins.dia., bears $S.63\frac{3}{4}^{\circ}E$. 76 lks.dist., mkd. $\frac{1}{4}$ S 29 B T.
	An oak 8 ins.dia., bears $S.31^{\circ}W$. 18 lks.dist.,

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	mkd. $\frac{1}{4}$ S 30 B T.
	This cor. is about 50 ft. below top of ridge.
	Note:-The $\frac{1}{4}$ sec.cor. bet. secs. 29 and 30, set in original survey of this line bears S.60° E. 230 lks. dist., I destroy all traces of this cor.
49.60	Creek 2 lks. wide 2 ins. deep, in ravine 150 ft. below $\frac{1}{4}$ sec.cor., course S.60°W. Ascend.
59.00	Top of ridge 100 ft. above creek bears NE and SW. Descend.
71.20	Creek 2 lks. wide 2 ins. deep in ravine 100 ft. below ridge, course S.35°W. Ascend.
80.00	Set a volcanic stone 20x12x8 ins., 15 ins. in the ground, for cor. of secs. 19, 20, 29 and 30, mkd. with 2 notches on S. and 5 notches on E. edges; from which A cedar 16 ins. dia., bears N.58 $\frac{3}{4}$ °E. 84 lks. dist., mkd. T 36 S R 9 W S 20 B T. No other trees within limits; I raise a mound of stone 3 ft. base 2 ft. high W. of cor. Note:-The cor. point on sandstone boulder, set in original survey of this line bears S.58°E. 230 lks. dist., I destroy all traces of this cor. This cor. is 250 ft. above creek. Land mountainous. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, pine, and cedar. Undergrowth, oak, serviceberry and chokecherry. Good grass for grazing. Mountainous land or land covered with dense undergrowth.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

80.00 chs.

August 24, 1910.

August 25, 1910: At 8h 2m a.m., l.m.t., I set off $37^{\circ} 40' N.$ on the lat.arc; $10^{\circ} 57' N.$ on the decl.arc; and determine a meridian with the solar; at the cor.of secs. 19, 20, 29 and 30.

Thence I run

N. $89^{\circ} 54' E.$ on a random corrective survey line bet. secs. 20 and 29.

40.00

Set temp. $\frac{1}{4}$ sec.cor.

80.22

Intersect N. and S.line 5 lks.N. of the cor.of secs. 20, 21, 28.and 29.

Thence I run

S. $89^{\circ} 56' W.$ on a true corrective survey line bet.secs. 20 and 29.

Over mountainous land; through heavy timber and scattering undergrowth.

27.00

Creek 2 lks.wide 2 ins.deep, in ravine 250 ft.below sec.cor., course SW.

Leave heavy and enter scattering timber bears NE and SW.

Ascend.

Trail bears NE and SW.

40.11

Set a yellow sandstone 16x8x6 ins., 11 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which

A nut pine 8 ins.dia., bears N. $81^{\circ} W.$ 67 lks.dist.,

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	. mkd. $\frac{1}{4}$ S 20 B T.
	A nut pine 14 ins. dia., bears S.84°W.51 lks.dist.,
	. mkd. $\frac{1}{4}$ S 29 B T.
	Note:-The $\frac{1}{4}$ sec.cor.betsecs.20 and 29, set in original survey of this line bears S.60 °E.250 lks.dist., I destroy all traces of this cor.
43.00	Enter heavy timber bears NE and SW.
58.00	Top or ridge 300 ft.above creek bears NE and SW. Descend abruptly.
68.00	Leave heavy and enter scattering timber bears NE and SW.
71.60	Creek 2 lks.wide 2 ins.deep, in ravine 350 ft.below ridge, course SW. Ascend abruptly.
80.22	The cor.of secs.19, 20, 29 and 30, 250 ft.above creek, Land mountainous! Soil, gravelly and stony; 3rd.and 4th.rate. Timber, pine, aspen and cedar. Undergrowth, oak and serviceberry. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80:22 chs.
Final book "J" 3.	S.89°53'W.on a true corrective Sur.line bet.secs.19 and 30 Over mountainous land; through scattering timber and dense undergrowth. Ascend.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
39.10	Top of ridge 400 ft. above sec.cor. bears N. and S. Descend.
40.00	Set a yellow sandstone 16x10x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor.mkd. $\frac{1}{4}$ on N.face; from which A cedar 18 ins.dia., bears N.53°W.118 lks.dist., mkd. $\frac{1}{4}$ S.19 B T. No other trees within limits; raise a mound of stone, 2 ft. base 1 $\frac{1}{2}$ ft. high N.of cor. This cor.is 25 ft.below ridge. Note:-The $\frac{1}{4}$ sec.cor.betsecs.19 and 30, set in original survey of this line bears S.58°E.280 lks.dist., I destroy all traces of this cor.
56.00	Bottom of hollow 50 ft.below $\frac{1}{4}$ sec.cor., course SE. Ascend.
63.00	Top of ridge 300 ft.above hollow, bears N. and S.30°W. Descend.
72.37	Intersect W.bdy.of Tp.8.56 chs.S.from the cor of secs.24 and 25, heretofore described. Set a sandstone 20x8x4 ins.; 15 ins. in the ground, for closing cor.of secs.19 and 30, mkd.CC on E.; with 4 grooves on N. and 2 grooves on S.faces; from which A pine 10 ins.dia., bears N.8 $\frac{1}{2}$ °E.128 lks.dist., mkd. T 36 S R 9 W S 19 B T. An oak 5 ins.dia., bears S.75 $\frac{3}{4}$ °E.51 lks.dist., mkd. T 36 S R 9 W S 30 B T. Note:-The closing cor.of secs.19 and 30, set in the original survey of this line bears S.1.68 chs.dist., I destroy all traces of this cor. Land mountainous. Soil, gravelly; 3rd.rate.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.

Timber, pine and cedar.

Undergrowth, oak, serviceberry and mahogany.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,
72.37 chs.August 25, 1910: At this cor. I set off $10^{\circ}53'N$. on the decl. arc; and, at 0h 2m a.m., l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}40'N$., which is the proper lat. nearly.North $0^{\circ}14'E$. on a random corrective survey line bet. Sec original
secs. 19 and 20. notes, Book
"J", page 54.

40.00 Set temp. $\frac{1}{4}$ sec.cor.
 34.00 Intersect E. and W. line S. $89^{\circ}54'W$. 150 lks. dist., from the cor. of secs. 17, 18, 19 and 20, which is a volcanic stone 8x10x5 ins., above ground, firmly set and marked and witnessed as described by the Surveyor General. Set a trachyte stone 18x12x8 ins., 12 ins. in the ground, for closing cor. of secs., 19 and 20, marked CC and 3 grooves on S. face with 5 grooves on E. face; and raise a mound of stone 3 ft. base 2 ft. high S. of cor.

Note:-I destroy all marks on the old cor. secs. 17, 18, 19 and 20, which pertain to secs. 19 and 20.

Thence I run

South $0^{\circ}14'W$. on a true corrective survey line bet. secs. 19 and 20.

Over mountainous land; through dense undergrowth.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

	Chains.
	Descend.
9.80	Bottom of ravine 200 ft. below sec.cor., course SE.
10.80	Trail bears NW and SE.
25.00	Top of spur 50 ft. high bears NW and SE.
	Descend.
44.00	Set a trachyte stone 14x10x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A. yellow pine 4 ft. dia., bears S. $62\frac{3}{4}^{\circ}$ W., 298 lks. dist., mkd. $\frac{1}{4}$ S 19 B T. and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high W. of cor. Note:-The $\frac{1}{4}$ sec.cor. bet. secs. 19 and 20, set in original survey of this line bears S. 55° E. 240 lks. dist., I destroy all traces of this cor.
54.00	Enter scattering timber bears E. and W.
54.90	A small lake bears W. about 4.00 chs. dist.,
59.50	Creek 1 lk. wide 1 in. deep in ravine 100 ft. deep, course SE.
	Continue descent.
84.00	The cor. of secs. 19, 20, 29 and 30, 250 ft. below $\frac{1}{4}$ sec. cor.
	Land mountainous.
	Soil, gravelly and stony; 3rd. and 4th. rate.
	Timber, pine and cedar.
	Undergrowth, oak, mahogany and serviceberry.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth.
84.00	chs.
	August 25, 1910.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
	August 26, 1910: At 8h 2m a.m., l.m.t., I set off $37^{\circ} 41' N.$ on the lat.arc: $10^{\circ} 37' N.$ on the decl.arc; and determine a meridian with the solar at the old cor. of secs. 17, 18, 19 and 20, established by me as the cor. of secs. 17 and 18 only.
	Thence I run
inal: ook "J"	N. $89^{\circ} 56' E.$ on a random corrective survey line bet. secs. 17 and 20.
5 40.00	Counting from CC secs. 19 and 20.
78.70	Set temp. $\frac{1}{2}$ sec.cor.
80.20	Counting from cor. secs. 17 and 18 or
	Counting from CC secs. 19 and 20,
	Intersect N. and S. line 16 lks.N. of the cor. of secs. 16, 17, 20 and 21.
	Thence I run
	N. $89^{\circ} 57' W.$ on a true corrective survey line bet. secs. 17 and 20.
	Over mountainous land; through heavy timber and scattering undergrowth.
	Descend.
4.00	Begin abrupt descent over ledges bears NE and SW.
9.20	Creek 3 lks.wide, 4 ins.deep, in ravine 500 ft.below sec.cor., course SW.
	Leave ledges bears NE and SW.
	Leave heavy timber bears NE and SW.
	Enter dense undergrowth bears NE and SW.
	Ascend abruptly.
12.00	Top of spur 100 ft.above creek, bears NE and SW.
	Descend.
16.50	Creek 2 lks.wide 1 in.deep in ravine 10 ft.deep, course SW.

Corrective Survey of Subdivision of T.36 S., R.9 W.-Continued.

Chains.	
17.75	Enter dense willows bears NE and SW.
18.00	Spring branch 2 lks.wide, 2 ins.deep, course SW. Ascend.
18.50	Leave willows, bears NE and SW.
31.00	Top of spur 150 ft.above ravine bears NW and SE. Descend.
33.00	Bottom of hollow 100 ft.below spur, course SE. Ascend.
40.10	Set a yellow sandstone 20x10x6 ins.15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A balsam 28 ins.dia., bears S. $22\frac{1}{2}^{\circ}$ E.162 lks.dist., mkd. $\frac{1}{4}$ S 20 B T. A yellow pine 48 ins.dia., bears N. 45° E.350 lks. dist., mkd. $\frac{1}{4}$ S 17 B T.
	Note:-The $\frac{1}{4}$ sec.cor.bet secs.17 and 20, set in original survey of this line bears E.142 lks.dist., I destroy all traces of this cor.
44.70	Top of ridge 200 ft.above $\frac{1}{4}$ sec.cor.bears NW and SE. Descend.
55.00	Creek 1 lk.wide 1 in.deep in ravine 100 ft.below ridge, course SE. Ascend.
58.50	Leave timber bears NW and SE.
78.70	The cor.of secs.17,18,400 ft.above creek.
80.20	The CC secs.19 and 20. Land mountainous. Soil, gravelly; 3rd.rate. Timber, pine and aspen. Undergrowth, oak, mahogany and serviceberry. Good grass for grazing. Mountainous or heavily timbered land, or land covered

Corrective Survey of Subdivision of T.36 S., R.9 W.- Continued.

Chains.

with dense undergrowth 80.20 chs.

August 26, 1910: At this cor. I set off $10^{\circ} 33' N.$ on the decl.arc; and at 0 h 2m p.m.l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 41' N.$, which is the proper lat. nearly.

August 26, 1910.

August 27, 1910: I return to the meridian established at the cor.of Tps.36 and 37 S., Rs.,9 and 10 W., heretofore described on August 13 and 14 1910.

At 8h 2m.a.m.l.m.t., I set off $37^{\circ} 38' N.$ on the lat.arc; $10^{\circ} 16' N.$ on the decl.arc; and test the adjustments of my solar, finding it gives the same meridian as before, and adjustments correct.

August 27, 1910.

The general description for this township is the same as returned in the original returns of the subdivision of the township; except that George Ashdown's garden falls in NW $\frac{1}{4}$ of section 32.

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Page

BOUNDARIES OF T. 36 S., R. 9 W.

Latitudes, departures and closing errors.

Line Designated.	True Bearing.	Distance.	Latitudes. N. Chs.	Latitudes. S. Chs.	Departures. E. Chs.	Departures. W. Chs.
W.bdy.T.36 S.,R.9 W.	North	211.88	211.88			
W.bdy.T.36 S.,R.9 W.	N. $6^{\circ}45' E.$	32.47	32.25		3.82	
W.bdy.T.36 S.,R.9 W.	N. $0^{\circ}15' E.$	79.96	79.96		.30	
N.bdy.sec.18						
Sub.T.36 S.,R.9 W.	East.	70.21			70.21	
W.bdy.sec.8						
Sub.T.36 S.,R.9 W.	N. $0^{\circ}21' W.$	80.10	80.10			.49
N.bdy.sec.8						
Sub.T.36 S.,R.9 W.	East.	79.52			79.52	
N.bdy.sec.9						
Sub.T.36 S.,R.9 W.	East.	79.80			79.80	
N.bdy.sec.10						
Sub.T.36 S.,R.9 W.	East.	79.76			79.76	
E.bdy.sec.10.						
Sub.T.36 S.,R.9 W.	S. $0^{\circ} 4' W.$	79.50		79.90		.09
E.bdy.sec.15						
Sub.T.36 S.,R.9 W.	S. $0^{\circ} 2' W.$	79.86		79.86		.05
N.bdy.sec.23.						
Sub.T.36 S.,R.9 W.	East.	79.90			79.90	
N.bdy.sec.24						
Sub.T.36 S.,R.9 W.	East.	79.86			79.86	
E.bdy.T.36 S.,R.9 W.	South.	244.24		244.24		
S.bdy.T.36 S.,R.9 W.	West.	160.00				160.00
S.bdy.T.36 S.,R.9 W.	S. $89^{\circ}53' W.$	312.46		.63		312.46
Convergency					.39	
Totals.			404.19	404.64	473.56	473.09
					404.19	475.09
Error in Lat.-					.45	
Error in Dep.						.47

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley,
....., United States Deputy Surveyor, to assist in running, measuring, and
working the lines and corners described in the foregoing field notes of the Subdivision of Tp. No. 36 S. of R. No. 9 W. of the Salt Lake Base and Mer.
wing the respective capacities in which they acted:

Hillman Dalley , Chainman.
Edward H. Parry, , Chainman.
James A. Tweedie, , Moundman.
Edward H. Parry, , Moundman.
James A. Tweedie, , Axman.
Maeser Dalley, , Axman.
Maeser Dalley, , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley,
....., cor rective United States Deputy Surveyor, in surveying all
e parts or portions of the Subdivision of Tp. No. 36, S. of R. No. 9 W.

....., of the Salt
Lake Base and meridian, State of Utah, which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
er monuments established, according to the instructions furnished by the United States Surveyor
eral for the State of Utah.

Hillman Dalley, Chainman.
Edward H. Parry, Chainman.
James A. Tweedie, Moundman.
Edward H. Parry, Moundman.
James A. Tweedie, Axman.
Maeser Dalley, Axman.
Maeser Dalley, Flagman.

scribed and sworn to before me this 18th:
day of October, 1910. #44 }

ccccc
O SEAL
ccccc

My Commission Expires

May 10th, A. D. 1911. Notary Public, Iron County, Utah.

Sessora L. Dalley

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, d
Edward H. Anderson

solemnly swear that, in pursuance of a contract received from
 United States Surveyor General for the State of Utah, bearing date of the 11th
April, 1901, #51, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the State of Utah, the Manual of Surveying Instructions, and the laws of the United States, ~~excepting~~ all those parts or portions of "the Subdivision of Tp. No. 36 S. o.
 R. No. 9 W.

Salt Lake
of the

Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the State of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me }
 this 10th. day of May, 1912. #51 }

Chas. D. Adams
Clerk of District Court.

5th Judicial District,

APPROVAL.

Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1906

The foregoing field notes of the survey of the subdivision of Township No. 36 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley

under his contract No. 241, dated April 11, 1901, XXX, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Franklin
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-374

Dn. 12

CORRECTIVE
FIELD NOTES

Book "U" original notes,
OF THE SURVEY OF THE
RETRACEMENT AND RESURVEY OF THE
EAST BOUNDARY

of

Township No. 34 South of Range No. 9 West

of the Salt Lake Base and Meridian,

in the STATE of UTAH

AS SURVEYED BY

John H. Dally, United States Deputy Surveyor,
under his Contract No. 241, dated April 11th, 1901
Survey commenced March 17th, 1911.
Survey completed March 17th, 1911.

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Book 1-33-73

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1/2m 1-34-71

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley,..... Chainman.

Maesr Dalley,..... Chainman.

Hillman Dalley,..... Moundman.

Maeser Dalley,..... Moundman.

Rulon Dalley,..... Axman.

Maeser Dalley,..... Axman.

Rulon Dalley,..... Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 34 South, Range 9 West.

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31	32	33	34	35	36

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of East Bdy. of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian,

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



My Commission expires May 31, 1913.

Notary Public, Iron County, Utah.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of East Bdy. of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian.

Hillman Dalley, Moundman.
Maeser Dalley, Moundman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



My Commission expires May 31, 1913.

Notary Public, Iron County, Utah.

WE, Rulon Dalley and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of East Bdy. of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian.

Rulon Dalley, Axman.
Maeser Dalley, Axman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



My Commission expires May 31, 1913.

Notary Public, Iron County, Utah.

I, Rulon Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of East Bdy. of Tp. 34 S. of R. 9 W. of the Salt Lake Base and Meridian.

Rulon Dalley, Flagman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



My Commission expires May 31, 1913.

Notary Public, Iron County, Utah.

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Corrective Retracement and Resurvey of
East Boundary of T. 34 S., R. 9 W.

Chains

Corrective survey commenced March 17, 1911, and executed with a W. and L.E. Gurley Light Mountain Solar Transit No. 31, provided with R.M. Jones double latitude arc, and reversible level bubble.

The horizontal limb is provided with two double verniers, placed opposite to each other, which reads to single minutes of arc; the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds of arc respectively.

The instrument was examined, tested on the true meridian at Salt Lake City, Utah, found correct, and was approved by the Surveyor General for Utah, July 11,

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observation on Polaris, I proceed as follows:

March 17, 1911: At the cor. of secs. 19 and 30 on E. bdy. of the Tp., heretofore described in original notes of the retracement and resurvey of the E. bdy. of this Tp., latitude $37^{\circ} 50' 18''$ N., longitude $112^{\circ} 46' 31''$ W.

At 4h 9m p.m., l.m.t., I set off $37^{\circ} 50'$ N., on the lat. arc; $1^{\circ} 28'$ S. on the decl.arc; and determine a meridian with the solar, and mark a point thereof on a wooden plug set firmly in the ground 5.00 chs. N. of the cor.

At 7h 45m.p. m., l.m.t., I observe Polaris at western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a cross (X) cut on a wooden plug driven in the

Corrective Retracement and Resurvey of
East Boundary of T. 34 S., R. 9 W.

Chains

ground 5.00 chs. N. of my station.

March 17, 1911

March 18, 1911: At 7h 30m a. m., l. m. t., I lay off the azimuth of Polaris $1^{\circ} 29'$ to the East and mark the meridian thus determined, by cutting a cross (X) on the wooden plug already set 5.00 chs. N. of the cor. on which the meridian falls 0.35 ins. W. of the mark determined by the solar.

At 8h 8m a.m., l. m. t., I set off $37^{\circ} 50'$ N. on the lat. arc; $1^{\circ} 15'$ S. on the decl. arc; and mark a point in the meridian determined with the solar by a tack driven in the plug already set 5.00 chs. N. of my station; this mark falls 0.33 ins. W. of the meridian established by Polaris observation.

The solar apparatus by p. m. and a. m. observations defines positions for meridians respectively about $0' 18''$ E. and $0' 17''$ W. of the meridian established by Polaris observation; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 30m a. m., l. m. t., is $15^{\circ} 52'$ W.; the angle thus determined gives the magnetic declination $15^{\circ} 52'$ E.

From the above mentioned cor. of secs. 19 and 30,

I run

X S. $0^{\circ} 22'$ W., along the W. bdy. of sec. 30

The $\frac{1}{4}$ Sec. cor., heretofore described in the original plan, is now established in the NW. corner of this section. The boundary line of sec. 19, as shown in the original

Corrective Retracement and Resurvey of
East Boundary of T. 34 S., R. 9 W.

Chains

notes of Retracement and Resurvey of East Boundary
of this Tp., bears 1 lk. E. of my line.

73.73 The cor. of secs. 30 and 31, heretofore described in the
original notes of Retracement and Resurvey of East
Boundary of this Tp.

From the cor. of secs. 30 and 31, above referred to, I
run

N. $0^{\circ}22'$ E., on a true line along the West Boundary See orig.
notes Vol
387, p. 141

of sec. 30

39.49 The $\frac{1}{4}$ sec.cor.

I destroy all traces of this $\frac{1}{4}$ sec.cor.

40.00 Set a yellow sandstone 25x12x8 ins. 17 ins. in a mound
of stone for re-established $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W
face; from which

A nut pine 12 ins. dia., bears S. $83^{\circ} 30'$ E., 25 lks.
dist., mkd. $\frac{1}{4}$ S 30 B T

No other trees within limits; raise a mound of stone,
3 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

73.73 The cor. of secs. 19 and 30, as heretofore described.

Note: The topography on this line is same as given in
the original field notes of retracement and resurvey
thereof.

March 18, 1911: At this cor. of secs. 19 and 30 I set off
 $1^{\circ} 10'$ S. on the decl.arc; and at 12h 8m p.m., l.m.t.,
observe the sun on the meridian; the resulting latitude
is $37^{\circ} 50'$ N., which is the proper lat. nearly.

From the cor. of secs. 30 and 31, heretofore described
in the original notes of Retracement and Resurvey of
East Boundary of this Tp., I run

39.42 South $0^{\circ} 22'$ W., along W.bdy. of sec. 31
Set a sandstone 15x8x4 ins., 10 ins. in the ground, for
witness cor. to $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W face; from
which

See orig.
notes Vol.
387, page
143.

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Corrective Retracement and Resurvey of
East Boundary of T. 34 S., R. 9 W.

Chains

A cottonwood 5 ins.dia., bears N.54°E., 51 lks.

dist., mkd. W C $\frac{1}{4}$ S 31 E T

A cottonwood 10 ins.dia., bears N.77° 15'W., 80 lks.

dist., mkd. W C $\frac{1}{2}$ S 36 E T

40.00 The $\frac{1}{4}$ sec.cor. originally set in this survey, has been destroyed by floods and the point for cor. falls in an unsafe place to reset the cor. for which reason I established a witness cor. at 39.42 chs. as above described.

80.00 The cor.of Tps.34 and 35 S., R. 9 W. heretofore described in the original notes of this survey.

Note: The topography on this line is same as given in the original field notes of retracement and resurvey thereof.

From this cor. I retrace S. 0° 05'E. along the east bdy. of sec. 36, and at 9.68 chs.intersect the closing cor. of Tps. 34 and 35 S., R. 9 W.,heretofore described in the original notes of this survey.

X

From the cor. of secs. 19 and 30, which is a stationary yellow sandstone 4x3x2 ft. above ground, marked with two notches on the S. and four notches on the N. edges, from which

A cedar, 10 ins.dia., bears N. 9 $\frac{1}{4}$ ° E., 47 lks.

dist., mkd. T 34 S. R 8 W. S 19 E T

A cedar 14 ins. dia., bears S.40 $\frac{3}{4}$ ° E., 47 lks.

dist., mkd. T 34 S R 8 W S 30 E T

I run

N. 0° 9' W., on retracement line corrected and

Survey line Along the W.bdy.of sec. 19

40.34 Fall 1 lk. E. of the old $\frac{1}{4}$ sec.cor., between secs. 19 and 24, which is a volcanic stone badly disepicated:
At exact point for $\frac{1}{4}$ sec.cor., which is 1 lk.E.of

rective Retracement and Resurvey East Boundary of T.34 S., R.9 W

Chains old corner point, I mark a cross (X) on a conglomerate stationary rock, 20 x 20 x 14 ins. above ground, with $\frac{1}{4}$ W.of cross; from which

A cedar 4 ins.dia.bears S. $58\frac{1}{2}$ ^oE.49 lks.dist.

mkd. $\frac{1}{4}$ S 19 B T

A pinon pine, 8 ins.dia., bears S. 28° W. 207 lks. dist., mkd. $\frac{1}{4}$ S 24 B T

From the $\frac{1}{4}$ sec.cor.betsecs.19 and 24 above described I run

N. $0^{\circ} 12'W$.between the N.halves of secs.18 and 24

39.67 The cor.of secs.13,18,19, and 24, which is a granite stone badly dilapidated. I re-establish the corner at the same point as follows:

Set a limestone 20 x 12 x 8 ins., 15 ins.in the ground and mound of stone for cor.of secs.13,18,19, and 24, mkd.with 3 notches on N.and S.edges; from which

A cedar 18 ins.dis.bears N. $34\frac{3}{4}$ ^oE. $31\frac{1}{2}$ lks.dist.

mkd.T 34 S R 8 W S 18 B T

A pinon pine, 8 ins.dia., bears S. 21° E. $74\frac{1}{2}$ lks. dist., mkd.. T 34 S R 8 W S 19 B T

A pinon pine, 8 ins .dia.bears S. 37° W. 147 lks. dist., mkd.T 34 S R 9 W S 24 B T

A pinon pine 8 ins.dia.bears N. 19° W.43 lks.dist. mkd.T 34 S R 9 W S 13 B T

From the cor.of secs.13,18,19 and 24, I run

N. $0^{\circ} 12'W$.between secs.13 and 18,

39.70 The $\frac{1}{4}$ sec.cor.between secs.13 and 18, which is a granite stone 10 x 8 x 6 ins.above ground, properly marked, with a cedar post alongside.

March 18, 1911.

7
Corrective Retracement and Resurvey of

. . . East Boundary of T. 34 S., R. 9 W.,

Latitudes, departures and closing errors.

Line Designated:	True Bearing.	Dist. Chs.	Latitude. N. Chs.	Departures. E. Chs.	W. Chs.
			M. S. Chs.	E. W. Chs.	Chs.
S.Bdy.T.34 S.,R.9 W., West.		320.00			320.00
S.Bdy.T.34 S.,R.9 W., N89°51'W.	79.79	.21			79.79
W.Bdy.sec.32					
Sub.T.34 S.,R.9 W.,	North.	80.00	80.00		
N.Bdy.sec.32					
Sub.T.34 S.,R.9 W.,	S89°52'E.	80.13		.19	80.13
W.Bdy.sec.28					
Sub.T.34 S.,R.9 W.,	N.0°6'E.	80.40	80.40		.14
N.Bdy.sec.28					
Sub.T.34 S.,R.9 W.,	N89°50'E.	80.00	.23		80.00
N.Bdy.sec.27					
Sub.T.34 S.,R.9 W.,	N89°30'E.	79.82	.70		79.82
N.Bdy.Sec.26					
Sub.T.34 S.,R.9 W.,	N89°35'E.	79.96	.58		79.96
N.Bdy.Sec.25					
Sub.T.34 S.,R.9 W.,	East.	81.56			81.56
E.Bdy.T.34 S.,R.9 W., S.0°22'W.	152.53		152.53		.98
E.Bdy.T.34 S.,R.9 W., S.0°5'E.	9.68		9.68		.01
Convergency					.16
Totals		162.12	162.40	401.78	400.77
				162.12	400.77
Error in Lat.					.28
Error in Dep.					1.01

March 18, 1911.

Matthew H. Dally

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and corrective re-tracement and re-working the lines and corners described in the foregoing field notes of the survey of East Bdy. of Twp. 34 S. of R. 9 W. of the Salt Lake Base and Meridian, wing the respective capacities in which they acted:

William Dalley, Chairman.
Wm. M. Fausser, Chairman.
William Dalley, Moundman.
Wm. M. Fausser, Moundman.
John Dalley, Axman.
Wm. M. Fausser, Axman.
John Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all parts or portions of the Corrective re-tracement and re-survey of the East of Twp. 34 S. of R. 9 W.,

of the Salt
Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

William Dalley, Chairman.
Wm. M. Fausser, Chairman.
William Dalley, Moundman.
Wm. M. Fausser, Moundman.
John Dalley, Axman.
Wm. M. Fausser, Axman.
John Dalley, Flagman.

scribed and sworn to before me this 31st.
day of March, 19 11.

William Houchen

Notary Public, Iron County, Utah.

Commission expires May 31, 1913.

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ccccc
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Corrective Re-tracement and Re-survey of the East Bdy. of Tp. 34 S. of R. 9 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 18th day of July, 1912. }

Charles D. Adams
Clerk of District Court.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of the Corrective survey of the retrace and resurvey of the East Boundary of Township No. 34 South, of Range No. 9 West of the Salt Lake Base and Meridian, Utah.

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Frederick Kell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-374

N.

FIELD NOTES

RETRACEMENT *of Rec*
OF THE SURVEY OF THE

S U B D I V I S I O N

OF

Township No. 34 South, Range No. 9 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

under his Contract No. 241, dated April 11, 1901

Survey commenced July 19, 1908

Survey completed March 20, 1911, 100

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low
Retro. 5-41-27 ✓

Re low 1-46-69 ✓

Re high 74-66 ✓

8-08-68

NAMES AND DUTIES OF ASSISTANTS.

1908:-

Hillman Dalley, Chainman.

Maeser Dalley, Chainman.

George Frith, Moundman.

Barney Gifford, Moundman.

Arthur Pratt, Axman.

Henry Savage, Axman.

Fred Miles, Flagman.

1911:-

Hillman Dalley, Chainman.

Maeser Dalley, Chainman.

Hillman Dalley, Moundman.

Maeser Dalley, Moundman.

Rulon Dalley, Axman.

Maeser Dalley, Axman.

Rulon Dalley, Flagman.

BOOK A-374

INDEX DIAGRAM.

Township 34 South, Range 9 West.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



William Toucham.
Notary Public, Iron County, Utah.

My Commission expires May 31, 1913.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian

Hillman Dalley, Moundman.
Maeser Dalley, Moundman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



William Toucham.

My Commission expires May 31, 1913. Notary Public, Iron County, Utah.

WE, Rulon Dalley and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian

Rulon Dalley, Axman.
Maeser Dalley, Axman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



William Toucham.

My Commission Expires May 31, 1913.

Notary Public, Iron County, Utah.

I, Rulon Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W. of the Salt Lake Base and Meridian

Rulon Dalley, Flagman.

Subscribed and sworn to before me this 16th.
day of March, 1911.



William Toucham.

My Commission expires May 31, 1913.

Notary Public, Iron County, Utah.

BOOK A-374

INDEX DIAGRAM.

Township 34 South, Range 9 West.

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19	20	21	22	23	24
		5	3	1	
30	20	6	28	27	26
	8				
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement of fractl. Subdivision of T. 34 S., R. 9 W.; Retracement and resurvey of fractl. sub. of T. 35 S., R. 8 W., of the Salt Lake Base and Mer. Hillman Dalley Chainman

Fractl. Subdivision of T. 34 S., R. 9 W.; Retracement and resurvey of fractl. sub. of T. 35 S., R. 8 W., of the Salt Lake Base and Mer. Maeser Dalley Chainman Utah.

Subscribed and sworn to before me this 11th.

day of July, 1908. #15#



My Commission Expires
May 16th, A. D. 1911.

Maeser Dalley, Chainman

Sensora C. Dalley Notary Public.

WE, George Frith and Barney Gifford

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the retracement of fractl. subdivision of T. 34 S., R. 9 W.; retracement and resurvey of fractl. sub. of T. 35 S., R. 8 W., of the Salt Lake Base and Mer. George Frith Moundman

Barney Gifford, Moundman

Subscribed and sworn to before me this 11th.

day of July, 1908. #15#



My Commission Expires
May 16th, A. D. 1911.

Sensora C. Dalley Notary Public.

WE, Arthur Pratt and Henry Savage

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the retracement of fractl. subdivision of T. 34 S., R. 9 W.; retracement and resurvey of fractl. sub. of T. 35 S., R. 8 W., of the Salt Lake Base and Mer., Utah. Arthur Pratt Axman

Henry Savage, Axman

Subscribed and sworn to before me this 11th.

day of July, 1908. #15#



My Commission Expires
May 16th, A. D. 1911.

Sensora C. Dalley Notary Public.

I, Fred Miles, do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me to the best of my skill and ability, in the retracement of the fractl. subdivision of T. 34 S., R. 9 W.; retracement and resurvey of fractl. sub. of T. 35 S., R. 9 W.; and retracement of fractl. sub. of T. 35 S., R. 8 W., of the Salt Lake Base and Mer., Utah. Fred Miles Flagman

Subscribed and sworn to before me this 11th.

day of July, 1908. #15#



My Commission Expires
May 16th, A. D. 1911.

Sensora C. Dalley Notary Public.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T.34 S., R.9 W.

Chains	<p>Survey commenced March 19, 1911, and executed with the same instrument used in the Corrective Retracement and Resurvey of East Boundary of T.34 S., R.9 W. I know the instrument to be in adjustment from a complete test made by me March 17, 1911, at the cor. of secs.19 and 30 on the E. bdy. of this Tp.</p> <p>March 19, 1911: At the re-established cor. of secs.13, 18,19 and 24 on E.bdy. of the Tp., heretofore described in the notes of the retracement and resurvey of the E.bdy. of T. 34 S., R. 9 W., I set off $37^{\circ} 51'$ N. on the lat.arc; $0^{\circ} 48'$S. on the decl.arc; and at 9h 8m a.m. l.m.t., determine a meridian with the solar.</p> <p>Thence I run</p> <p style="padding-left: 40px;">West on retracement line bet. secs.13 and 24</p> <p style="padding-left: 40px;">Through heavy nut pine and cedar timber.</p> <p>Ascend.</p> <p>Bottom of ravine 75 ft. below the sec.cor., course NW.</p> <p>Leave timber bears NE. and SW.</p> <p>Top of ridge, 100 ft. above ravine, bears NW. and SE.</p> <p>Leave ridge and enter valley bears NE. and SW.</p> <p>Leave timber bears NE. and SW.</p> <p>NE. cor. of fence enclosing Cemetery ground, bears S. 2.75 chs. dist.</p> <p>Fence bears N. and S.; and enter cultivated land.</p> <p>NW. cor. of fence enclosing Cemetery ground, bears S. 2.82 chs.</p> <p>Fence bears N. and S.; and leave field.</p> <p>Fall 25 lks. N. of the $\frac{1}{4}$ sec.cor., betsecs.13 and 24, which is a conglomerate stone 10x8x6 ins.above ground, firmly set and marked and witnessed as described by the Surveyor General. I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
--------	--

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains	The course of this $\frac{1}{2}$ mile is therefore, S. $89^{\circ} 39'W.$ and the distance 40.96 chs.
	I begin at the $\frac{1}{4}$ sec.cor. bet.secs.13 and 24 above described, run
	West on retracement line bet.secs.13 and 24
40.00	Find no trace of the old cor. of secs.13,14,23 and 24.
	I continue my line W. bet.secs.14 and 23.
80.48	Intersect N. and S. $\frac{1}{4}$ sec.line, 67 lks. N. of the $\frac{1}{4}$ sec.cor., bet.secs.14 and 23, which is a sandstone 8x6x5 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.
	Note: This cor. is on the S.side of E. and W. fence line running along the S.side of the main county road.
	The falling of this line answers to a correction of 29' to the S.; and the length of each $\frac{1}{2}$ mile is 40.24 chs.
	Therefore I resurvey the line as follows:
	From the $\frac{1}{4}$ sec.cor. above described, I run
	N. $83^{\circ} 31'E.$ on a true line bet.secs.14 and 23
	Over level ground in field.
	Gradually ascending.
6.10	W. side of street in Parowan City, bears N. and S.
	Leave field bears N. and S.
7.60	East side of street, bears N.and S.
14.60	W.side of street,bears N. and S.
16.10	E.side of street, bears N. and S.
23.25	W.side of street, bears N. and S.
34.65	E.side of street, bears N. and S.
31.70	W. side of street, bears N. and S.
33.20	E. side of street, bears N. and S.
40.24	Set a temp.cor. of secs.13,14,23 and 24, at this point.
	Note: This cor. afterwards permanently set $2\frac{1}{2}$ lks. N.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains

of this point, changing the course of the line to N. $89^{\circ} 29' E.$

Land, nearly level.

Soil, rich loam and gravel, occupied by the field and Parowan City.

No timber, except shade trees along street line.

From the temp cor. of secs. 13, 14, 23 and 24, I run

N. $89^{\circ} 31' E.$ bet. secs. 13 and 24

Over nearly level land in Parowan City.

Gradually ascending.

- .53 West side of street in Parowan City, bears N. and S.
2.03 E. side of street, bears N. and S.
2.40 Parowan Mill Race Creek, 10 lks. wide, 6 ins. deep, course NW.
11.03 W. side of street, bears N. and S.
12.53 E. side of street, bears N. and S.
20.55 W. side of street, bears N. and S.
21.05 Creek, 10 lks. wide, 6 ins. deep, course SW.
22.05 E. side of street, bears N. and S.
22.75 Same creek, 10 lks. wide, 6 ins. deep, course NW.
25.15 Canon road crossing vacant lots, bears SE. and NW.
29.05 W. side of street, bears N. and S.
30.57 E. side of street, bears N. and S.
36.67 W. side of street, bears N. and S.
Leave settled part of Parowan City.
38.25 Telephone line bears S. $20^{\circ} E.$ and N. $20^{\circ} W.$
38.50 Road, bears N. and S.
40.24 The $\frac{1}{4}$ sec. cor., bet. secs. 13 and 24, heretofore described.
Note:- The cor. of secs. 13, 14, 23 and 24 afterwards set permanently $3\frac{1}{2}$ lks. N. of temp. cor., the course of this line is changed to N. $89^{\circ} 33' E.$

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T.34 S., R.9 W.

Chains	<p>Land nearly level. Soil, rich loam and gravelly; 3rd and 4th rate, and mostly occupied by Parowan City. No timber, except shade trees along street line. Undergrowth, sage brush, on unoccupied part.</p>
	<p>March 19, 1911: At the cor. of secs. 23, 24, 25, and 26 I set off $0^{\circ} 45'$ S. on the decl. arc; and at 12h 8m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ} 50'$ N. which is the proper lat. nearly.</p>
	<p>Thence I run</p>
	<p>North on retracement line bet. secs. 23 and 24</p>
40.00	<p>Find no trace of the old $\frac{1}{4}$ sec.cor.</p>
	<p>Set. temp. $\frac{1}{4}$ sec.cor.</p>
80.00	<p>Find no trace of the old sec.cor.</p>
80.555	<p>Intersect E. and W. line 33 lks. W. of temp. cor. of secs. 13, 14, 23 and 24.</p>
	<p>Set stake on line.</p>
	<p>I continue my line North bet. secs. 13 and 14</p>
120.87	<p>Fall 13 lks. W. of the $\frac{1}{4}$ sec.cor., bet. secs. 13 and 14, which is a white sandstone 10x8x8 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.</p>
	<p>Note: This cor. is in George Fowler's town lot near his residence, and is $10\frac{1}{2}$ lks. W. of his E. line of fence and $22\frac{1}{2}$ lks. N. of his S. line of fence. The N. side of an elm tree, 20 ins. dia., bears SE. $2\frac{1}{2}$ lks. dist.; the S. side of an elm tree, 10 ins. dia., bears N. 34 lks. dist. Mr. Fowler being present states that he saw this cor. set in the original survey and knows the same has never been moved from its original position.</p>

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains

Note: The falling at the cor. of secs. 13, 14, 23 and 24, and at this cor. will answer to a correction of 20 lks. to this $\frac{1}{2}$ mile; therefore this line will be N. O $^{\circ}$ 17' W. and the length of each $\frac{1}{2}$ mile will be 40.29 chs. therefore I run

S. O $^{\circ}$ 17' E. on a true line bet. secs. 13 and 14

Over nearly level land in Parowan City; gradually ascending.

- 0.23 North side of street, bears E. and W.
1.73 S. side of street, bears E. and W.
8.75 N. side of street, bears E. and W.
10.25 S. side of street, bears E. and W.
20.30 N. side of street, bears E. and W.
21.80 S. side of street, bears E. and W.
30.90 N. side of street, bears E. and W.
32.45 S. side of street, bears E. and W.
37.45 Fence line bears E. and W.
38.25 Mill Race Creek, 10 lks. wide, 6 ins. deep, course W.
38.48 N. side of street, bears E. and W.
39.98 S. side of street, bears E. and W.
40.29 Intersect E. and W. line $2\frac{1}{2}$ lks. N. of the temp. cor.

of secs. 13, 14, 23 and 24, at which point Set a white sandstone 16x12x8 ins., 11 ins. in the ground for re-established cor. of secs. 13, 14, 23 and 24, marked with 1 notch on the E. and 3 notches on the S. edges; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. base, W. of cor.

I destroy the temp. cor.

Land, nearly level, and occupied by Parowan City.

Soil, rich loam with some gravel on S. part of line; 4th and 3rd rate.

No timber, except shade trees in Parowan City.

Note: The cor. of secs. 13, 14, 23 and 24, having been set 33 lks. E. and $2\frac{1}{2}$ lks. N. of the temp. stake set

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains

at the intersection with the E. and W. lines, the course of the line is therefore N. $0^{\circ} 14'E.$

S. $0^{\circ} 14'W.$, on a true line, bet. secs. 23 and 24

Over nearly level land in Parowan City.

Gradually ascending.

5.77 Fence on S. side of block, bears E. and W.

Leave occupied part of Parowan City.

5.92 Old creek bed, 50 lks. wide, 4 ft. deep, course W.

Stream in bottom of creek bed, 5 lks. wide and 2 ins. deep. Enter dense sage brush undergrowth, bears E. and W.

8.93 Road, bears NE. and SW.

13.90 Foot of ridge on S. side of Parowan Valley, bears E. and W.

Enter scattering cedar and nut pine bears E. and W.

Ascend N. slope of ridge.

18.75 Top of ridge, 200 ft. above the foot bears NE. and SW.

Descend.

24.90 Bottom of ravine, 100 ft. below top of ridge, course N. $80^{\circ}W.$

Ascend.

33.00 Top of spur, 50 ft. above ravine, bears NE. and SW.

34.90 Bottom of same ravine, 50 ft. below top of spur, course NE.

Ascend.

40.29 Find no trace of the old $\frac{1}{4}$ sec.cor.

Set a trachyte stcne 20x12x8 ins., 15 ins. in the ground, for re-established $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which

A nut pine, 8 ins. dia., bears S. $59^{\circ}W.$, 20 lks.

dist., marked $\frac{1}{4}$ S 23 B T

A cedar, 8 ins. dia., bears S. $56^{\circ}E.$, 17 lks. dist.,

marked $\frac{1}{4}$ S 24 B T

RETRACEMENT AND RESURVEY OF SBUDIVISION OF T. 34 S., R. 9 W.

Chains

I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

45.50 Bottom of same ravine, course N. 30° W.
Ascend NE. slope of ridge.

58.00 Top of ridge, 150 ft. above ravine, bears SE. and NW.
Thence over rolling bench.

65.00 Nearly level bench land in hollow, bears E. and W.

80.58 The cor. of secs. 23, 24, 25 and 26, heretofore described.
~~74.66 chs.~~
Land, nearly level valley and broken ridges.
Soil, gravelly and stony; 2nd and 3rd rate.
Timber, scattering cedars and nut pine.
Undergrowth, sage brush.
Mountainous land or land covered with dense undergrowth
74.66 chs.

March 19, 1911

March 20, 1911: At 9h'08m a.m. l.m.t., I set off $37^{\circ} 50'$ on the lat. arc; $0^{\circ} 24'S.$ on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25 and 26, heretofore described.

Thence I run

West on a retracement line bet. secs. 23 and 26
Over mountainous land; through scattering timber and
dense undergrowth.

Descend gradually.

21.00 Enter heavy timber, bears N. and S.

27.00 Foot of ridge, 100 ft. below sec.cor., bears N. and S.
Ascend.

36.50 Top of ridge, 100 ft. above foot of ridge, bears N. and S.
Descend.

Leave heavy and enter scattering timber bears N. and S.
Fall 29 lks. N. of the $\frac{1}{4}$ sec.cor. bet. secs. 23 and 26
which is a conglomerate rock 10x10x8 ins., above
ground, firmly set and mkd. $\frac{1}{4}$ on N. face with mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. from which

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RETRacement AND RE-SURVEY OF SUBDIVISION OF T. 34 S., R. 8.

Chains

A cedar 12 ins. dia., bears N. $44\frac{1}{2}$ E., 335 lbs.

dist., mhd. 1 S 23 E T

A pinon pine, 4 ins. dia., bears S.55°E., 133 lbs.

dist., mhd. 1 S 26 E T

59.00 Road bears NW. and SE.

62.50 Bottom of hollow, 50 ft. deep, course NE.

Enter heavy timber, bears NE. and SW.

73.15 Wood road, bears N. and S.

76.51 Ravine, 150 ft. below 1 sec.cor., course N.

Ascend.

79.96 Fall 58 lbs. N. of the cor. of secs. 23, 23, 26 and 27,
which is a porphyry stone 4x10x6 ins., above ground,
marked and witnessed as described by the surveyor
general, except that the bearing trees have been
cut down and removed.

I mark new bearing trees as follows:

A nut pine, 6 ins. dia., bears N.36 $\frac{1}{2}$ E., 94 lbs.

dist., mhd. T 34 S R 9 W S 23 E T

A nut pine, 6 ins. dia., bears S.33°E., 26 lbs.

dist., mhd. T 34 S R 9 W S 26 E T

A nut pine, 8 ins. dia., bears S.69 $\frac{1}{2}$ W., 27 lbs.

dist., mhd. T 34 S R 9 W S 27 E T

A nut pine, 8 ins. dia., bears N.34 $\frac{1}{2}$ E., 20 lbs.

dist., mhd. T 34 S R 9 W S 28 E T

The course of this line is therefore S.69° 35'W.,

and the dist., 79.96 chs.

Land, mountainous.

Soil, gravelly and stony; 3rd and 4th rate.

Timber, cedar and nut pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered

with dense undergrowth, 79.96 chs.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 E.

Chains

West on a retracement line bet. secs. 23 and 27

Over mountainous land; through heavy timber and scattering undergrowth.

Ascend.

.70 Top of spur, 25 ft. above sec.cor., bears N. and S.

Descend.

1.20 Wood road, bears N. and S.

Thence over a series of small ridges and ravines.

33.00 Wood road, bears N. and S.

37.00 Top of ridge, bears NW. and SE.

Descend.

39.93 Fall 35 lks. N. of the $\frac{1}{4}$ sec.cor., bet. secs. 23 and 27 which is a cedar tree, 12 ins. dia., marked and witnessed as described by the surveyor general.

This tree cor. is dead and partly decayed; therefore I destroy all traces thereof, and re-establish the cor. at the same point as follows:

Set a trachyte stone 30x15x12 ins., 23 ins. in a mound of stone, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face; from which

A cedar, 8 ins. dia., bears N. 42° E., 79 lks. dist., mkd. $\frac{1}{4}$ S 23 B T

A cedar, 10 ins. dia., bears S. 72 $\frac{1}{2}$ ° W., 65 lks. dist., mkd. $\frac{1}{4}$ S 27 B T

54.60 Bottom of hollow, 100 ft. below $\frac{1}{4}$ sec.cor., course N.

Leave heavy and enter scattering timber, bears N. and S.

Enter dense sage brush bears N. and S.

Ascend.

60.00 Road bears N. and S.

60.50 Wood road bears N. and S.

65.00 Wood road bears N. and S.

68.60 Begin steep ascent of ridge, bears N. and S.

69.80 Top of spur, 150 ft. above hollow, bears N. and S.

Descend.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9

Chains

- 76.00 Foot of descent, 100 ft. below spur, bears NE. and SW.
Enter Parowan Valley.
- 79.82 Fall 70 lks. N. of the cor. of secs. 21, 22, 27 and 28,
which is a sandstone 5x12x12 ins. above ground, firmly
set and marked and witnessed as described by the
surveyor general.
I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
The course of this line is therefore $S.89^{\circ}30'W.$, and
the dist. 79.82 chs.
Land, mountainous and nearly level.
Soil, gravelly; 3rd rate.
Timber, cedar and nut pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 79.82 chs.
March 20, 1911: At this cor. I set off $0^{\circ}21'$ S. on
the decl.arc; and at 12h 8m p.m., l.m.t., observe
the sun on the meridian, the resulting lat. is $37^{\circ}50'N.$ which is the proper lat. nearly.

&

July 20, 1908: At 7h 6m a.m., l.m.t., I set off $37^{\circ}50'N.$
on the lat. arc; $20^{\circ}42'$ N. on the decl.arc; and
determine a meridian with the solar at the cor. of
secs. 21, 22, 27 and 28.

Thence I run

West on a retracement line bet. secs. 21 and 28

Over nearly level land in Parowan Valley; through dense
sage brush and scattering timber.

- 15.00 Leave timber, bears NE. and SW.
31.00 Wood road, bears N. and S.
40.10 Fall 12 lks. N. of the $\frac{1}{4}$ sec.cor., bet. secs. 21 and 28,
which is a porphyry stone 6x12x5 ins. above ground,
firmly set, and mark and witnessed as described by

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains

the surveyor general.

I raise a mound of stone 3 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

46.00

Cedar-Parowan Telephone line bears NE. and SW.

51.40

Road, bears NE. and SW.

60.60

Road, bears N. and S.

73.50

BEGIN ASCENT OF RIDGE, BEARS N. AND S.

78.50

TOP OF RIDGE, 50 FT. ABOVE FOOT, BEARS N. AND S.

ENTER SCATTERING TIMBER, BEARS N. AND S.

DESCEND.

80.00

FALL 23 LKS. N. OF THE COR. OF SECS. 20, 21, 28 AND 29,

WHICH IS A STATIONARY BLACK ROCK 5X5X5 FT. ABOVE GROUND, MARKED AND WITNESSED AS DESCRIBED BY THE SURVEYOR GENERAL.

AS THIS ROCK IS BADLY BROKEN AND CRUMBLING TO PIECES I DESTROY IT AND REBUILD THE CORNER AT THE SAME POINT AS FOLLOWS:

SET A TRACHYTE STONE 20X12X8 INS., 15 INS. IN MOUND OF STONE, FOR COR. OF SECS. 20, 21, 28 AND 29, MARKED WITH 3 NOTCHES ON S. AND 4 NOTCHES ON E. EDGES; FROM WHICH

A CEDAR, 3 INS. DIA., BEARS N. $43\frac{1}{4}^{\circ}$ E., 59 LKS.

DIST., MKD. T 34 S R 9 W S 21 E T

A CEDAR, 5 INS. DIA., BEARS S. $38\frac{3}{4}^{\circ}$ E., 27 LKS. DIST., MKD. T 34 S R 9 W S 28 BT

A CEDAR, 5 INS. DIA., BEARS S. $10\frac{1}{2}^{\circ}$ W., 40 LKS. DIST., MKD. T 34 S R 9 W S 29 E T

A NUT PINE, 4 INS. DIA., BEARS N. $51\frac{1}{4}^{\circ}$ W., 9 LKS. DIST., MKD. T 34 S R 9 W S 20 ET

THE COURSE OF THIS LINE IS THEREFORE, S. $89^{\circ} 50' W.$, AND DIST. 80.00 CHS.

LAND, MOUNTAINOUS AND NEARLY LEVEL.

SOIL, CLAY LOAM AND GRAVELLY; 2ND AND 3RD RATE.

TIMBER, CEDAR AND NUT PINE.

UNDERGROWTH, SAGE BRUSH.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

	Chains	Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
		South on a retracement line bet. secs. 28 and 29 Over mountainous land; through scattering timber and dense undergrowth.
		Ascend.
12.00		Top of spur, '50 ft. above sec.cor., bears NE. and SW.
		Descend.
15.00		Foot of ridge, 75 ft. below top of ridge, bears NE. and SW.
		Enter Parowan Valley.
		Leave timber bears NE. and SW.
16.50		Cedar-Parowan Telephone line bears NE. and SW.
17.30		Road bears NE. and SW.
38.00		Road bears NE. and SW.
40.00		Fall 7 ^v lks. E. of the $\frac{1}{4}$ sec. cor., bet. secs. 28 and 29, which is a porphyry stone 8x12x6 ins., above ground, firmly set and marked and witnessed as described by the surveyor general.
		I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.30		Road bears NE. and SW.
49.00		Begin ascent of ridge, bears E. and W.
59.00		Top of ridge, 75 ft. above foot of ridge, bears E. and W.
		Descend.
65.25		Foot of ridge, 75 ft. below top of ridge, bears E. and W.
		Descend gradually.
66.85		Wash, 75 lks. wide, 10 ft. deep, in hollow, course W.
		Ascend.
67.75		Road; bears E. and W.

RETRACEMENT AND RESURVEY OF SUBDIVISION OF T. 34 S., R. 9 W.

Chains

76.25	Begin steep ascent of ridge, bears E. and W.
80.40	Fall 14 lks. E. of the cor. of secs. 28, 29, 32 and 33, which is a porphyry stone 9x12x8 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. I raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. The course of this line is therefore, S. $0^{\circ}6'W.$ 80.40 chs.
	Land, mountainous and nearly level valley.
	Soil, clay loam and gravelly; 2nd and 3rd rate.
	Timber, cedar and nut pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.40 chs.
	July 20, 1908: At this cor. I set off $20^{\circ}39'N.$ on decl. arc; and at Oh 6m p.m. l.m.t., observe the sun on the meridian; the resulting lat. is $37^{\circ}49'N.$ which is the proper lat. nearly.
	N. $89^{\circ}52'W.$ on a retracement line bet. secs. 29 and 32
	Over mountainous land; through scattering timber, and dense undergrowth. Descend.
4.00	Wash, 50 lks. wide, 15 ft. deep, course NW.
17.50	Wash, 40 lks. wide, 12 ft. deep, course NW.
24.00	Wash, 75 lks. wide, and 20 ft. deep, course NW.
31.00	Wash, 30 lks. wide, and 15 ft. deep, course NW.
33.10	Wood road bears N. and S.
39.00	Foot of descent bears N. and S. Enter Parowan Valley.
40.00	The $\frac{1}{4}$ sec. cor., bet. secs. 29 and 32, which is a porphyry stone 8x10x8 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general. I raise a md. of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
42.50	Road bears NW. and SE.
58.00	Dry creek bed, 150 lks. wide, course N.
71.00	Dry gulch, 20 lks. wide, 4 ft. deep, course N.
79.00	Dry gulch 30 lks. wide, 5 ft. deep, course N.
80.13	The cor. of secs. 29, 30, 31 and 32, which is a conglomer-

Retracement of Subdivision of T.34 S., R.9 W.-Continued.

Chains. ate stone 7x10x8 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.
I raise a mound of stone 2 ft. base, 1 1/2 ft. high W.of cor.
Land mountainous and nearly level valley.
Soil, clay and gravelly loam; 2nd. rate.
Timber, cedar and nut pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land or land covered with dense undergrowth,
80.13 chs.

July 20, 1908.

Matthew H. Dally

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by

United States Deputy Surveyor, in assist in running, examining, and
setting the lines and corners described in the foregoing field notes of the survey of

showing the respective capacities in which they acted:

Chairman,

or list of names and final oaths of assistants see book "B". Chairman,
T.35 S., R.8 W. (for 1908). Moundsman.

Moundsman,

Armen.

Armen.

Armen.

Fingerman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

United States Deputy Surveyor, in surveying all

the parts or portions of the

of the

meridian, of which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
was been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
monuments established, according to the instructions furnished by the United States Surveyor
General for

Chairman,

Chairman.

Moundsman,

Moundsman,

Armen.

Armen.

Fingerman.

Inscribed and sworn to before me this _____
day of _____, 1908



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of the day of , 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the Laws of the United States, surveyed all those parts or portions of of the meridian, in the of , which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said , and sworn to before me }
this day of , 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

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The foregoing field notes of the survey of

executed by
under his contract No., dated , 190 , having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

United States Surveyor General

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by H. a. y. h. e. w. H. D. a. l. l. e. y., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian, retracing the same, the said survey being made in the State of Utah, and the said surveyor having the respective capacities in which they acted:

William Dalley, Chairman,
Ezra Dalley, Chairman,
William Dalley, Measurer,
Ezra Dalley, Measurer,
John Dalley, Attorney,
Ezra Dalley, Attorney,
John Dalley, Fiduciary.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted H. a. y. h. e. w. H. D. a. l. l. e. y., retracing the survey of all those parts or portions of the Subdivision of Tp. 34 S. of R. 9 W.,

of the Salt Lake base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

William Dalley, Chairman,
Ezra Dalley, Chairman,
William Dalley, Measurer,
Ezra Dalley, Measurer,
John Dalley, Attorney,
John Dalley, Attorney,
John Dalley, Fiduciary.

Subscribed and sworn to before me this 31st.

day of March, 1911.

Given my com. office
May 21, 1912.

William Penney,
Notary Public
Iron County, Utah.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of July, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, retraced, surveyed all those parts or portions of the Subdivision of Tp. 34 S. of R.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor

Subscribed by said Mayhew H. Dalley, and sworn to before me
this 18th day of July, 1912.

Chas. D. Adams
Clerk of District Court.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1912.

The foregoing field notes of the survey of the retrace of subdivisional lines in Township No. 34 South, Range No. 9 West, of the Salt Lake Base and Meridian, Utah.

executed by Mayhew H. Dalley,
under his contract No. 241, dated July 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracement they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-374

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FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

Township No. 34 South, of Range 9 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11th, 1901

Survey commenced July 25, 1908

Survey completed March 23, 1901

high 12-07-25 ✓ closing 10.95 ✓

NAMES AND DUTIES OF ASSISTANTS.

1908:-

Hillman Dalley, Chainman.

Maeser Dalley, Chainman.

George Frith, Moundman.

Barney Gifford, Moundman.

Arthur Pratt, Axman.

Henry Savage, Axman.

Fred Niles, Flagman.

1911:-

Hillman Dalley, Chainman.

Maeser Dalley, Chainman.
Hillman Dalley, Moundman.

Maeser Dalley, Moundman.
Rulon Dalley, Axman.

⁶⁻¹⁶ Maeser Dalley, Axman.
Rulon Dalley, Flagman.

BOOK A-374

INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, Hillman Dalley

and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian.

Hillman Dalley, Chainman
Maeser Dalley, Chainman

Subscribed and sworn to before me this 16th.

day of March, 1911.



My Commission expires May 21, 1913.

Notary Public, Iron County, Utah.

We, Hillman Dalley

and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian.

Hillman Dalley, Moundman
Maeser Dalley, Moundman

Subscribed and sworn to before me this 16th.

day of March, 1911.



My Commission expires May 21, 1913.

Notary Public, Iron County, Utah.

We, Rulon Dalley

and Maeser Dalley

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian.

Rulon Dalley, Axman
Maeser Dalley, Axman

Subscribed and sworn to before me this 16th.

day of March, 1911.



My Commission expires May 21, 1913.

Notary Public, Iron County, Utah.

I, Rulon Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivision of Tp. 34 S. of R. 9 W. of the Salt Lake Base and Meridian.

Rulon Dalley, Flagman

Subscribed and sworn to before me this 16th.

day of March, 1911.



My Commission expires May 21, 1913.

Notary Public, Iron County, Utah.

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INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Hillman Dalley and Maeser Dalley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of fractl. subdivision of T. 34 S., R. 9 W. and Tps. 35 S., Rs. 9 and 8 West, of the Salt Lake Base and Meridian, Utah.

Hillman Dalley, Chainman.
Maeser Dalley, Chainman.

Subscribed and sworn to before me this 11th,

day of July, 1908., #44#



My Commission Expires
May 18th, A. D. 1911.

Sensora C. Dalley

Notary Public.

We, George Frith and Barney Gifford

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of fractl. subdivision of T. 34 S., R. 9 W. and Tps. 35 S., Rs. 9 and 8 W. of the Salt Lake Base and Meridian, Utah.

George Frith, Moundman.
Barney Gifford, Moundman.

Subscribed and sworn to before me this 11th.

day of July, 1908., #44#



My Commission Expires
May 18th, A. D. 1911.

Sensora C. Dalley

Notary Public.

We, Arthur Pratt and Henry Savage

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the fractl. subdivision of T. 34 S., R. 9 W. and Tps. 35 S., R. 9 and 8 W. of the Salt Lake Base and Meridian, Utah.

Arthur Pratt, Axman.
Henry Savage, Axman.

Subscribed and sworn to before me this 11th.

day of July, 1908., #44#



My Commission Expires
May 18th, A. D. 1911.

Sensora C. Dalley

Notary Public.

I, Fred Miles, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the fractl. subdivision of T. 34 S., R. 9 W. and Tps. 35 S., Rs. 9 and 8 W. of the Salt Lake Base and Meridian, Utah.

Fred Miles, Flagman.

Subscribed and sworn to before me this 11th.

day of July, 1908., #44#



My Commission Expires
May 18th, A. D. 1911.

Sensora C. Dalley

Notary Public.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

Surveyor commenced March 20, 1911, and executed with the instrument used in Corrective Retracement and Resurvey of the East Boundary of T. 34 S., R. 9 W., and described in the field notes thereof.

I examine the adjustments of the transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

March 20, 1911: At the cor.of secs.1,2,35 and 36 on the S.bdy. of the Tp., heretofore described, latitude $37^{\circ} 48' 37''$ N., longitude $112^{\circ} 47' 27''$ W.; at 3.h 48m p.m., l.m.t., I set off $37^{\circ} 49' N.$ on the lat.arc; $0^{\circ} 17'S.$ on the decl.arc; and determine a meridian with the solar and mark a point thereof on a stone set firmly in the ground 5.00 chs. N. of the cor.

At 7h 33m p.m., l.m.t., I observe Polaris at western elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a groove cut in a wooden peg driven firmly in the ground 5.00 chs. N. of my station.

March 20, 1911.

March 21, 1911: At 7h 38m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 29'$ to the east and mark the meridian thus determined, by cutting a small cross (x) on the stone already set 5.00 chs. N. of my station. on which the meridian falls 0.39 ins. E. of the mark determined by the solar.

At 8h 8m a. m. l.m.t., I set off $37^{\circ} 49' N.$ on the lat. arc; $0^{\circ} 8'S.$ on the decl:arc; and mark a point in the

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

meridian determined with the solar by a groove cut on the stone already set 5.00 chs. N. of my station; this mark falls 0.37 ins. E. of the meridian established by Polaris observation.

The solar apparatus by p. m. and a. m. observations define positions for meridians respectively about $0^{\circ} 21''$ W. and $0^{\circ} 19''$ E. of the meridian established by Polaris observation; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 30m a. m. l. m. t., is $15^{\circ} 45' W.$; the angle thus determined gives the magnetic declination $15^{\circ} 45' E.$.

Note: I mark new bearing trees witnessing the above mentioned cor. of secs. 1, 2, 35 and 36, on the south boundary of the Tp., as follows:

A nut pine 10 ins. dia. bears $N. 73\frac{1}{2}^{\circ}$ E. 32 lks. dist.
mkd. T 34 S R 9 W S 36 E T

A cedar 20 ins. diam., bears $S. 64\frac{1}{2}^{\circ}$ E. 47 lks. dist.
mkd. T 35 S R 9 W S 1 E T

A nut pine 8 ins. diam., bears $S. 46^{\circ}$ W. 23 lks.
dist., mkd. T 35 S R 9 W S 2 E T

A cedar 12 ins. diam., bears $N. 54^{\circ} W.$, 24 lks.
dist., mkd. T 34 S R 9 W S 35 E T

Note: The East Bdy. of Tp. being out of limits, therefore I run,

North on sectional guide meridian bet. secs. 35 and 36
Over mountainous land; through heavy timber and scatter-
ing undergrowth.

Ascend.

7.75 Top of ridge, 200 ft. above sec. cor., bears NW. and SE.
Descend over NE. slope of ridge.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains	
14.40	Bottom of hollow, 100 ft. below ridge, course SE. Ascend.
24.00	Top of ridge, 175 ft. above hollow, bears NW. and S.70° E. Descend over NE. slope.
34.00	Ravine 200 ft. below ridge, course S.70°E. Ascend.
38.00	Top of spur, 100 ft. above ravine, bears N.70°W. and S. 70°E. Descend.
40.00	Set a gray sandstone 18x10x4 ins., 12 ins. in ground for $\frac{1}{4}$ sec.cor. , marked $\frac{1}{4}$ on W. face, from which A mahogany 6 ins.diam., bears S.20°E., 10 lks. dist., marked $\frac{1}{4}$ S 36 BT A mahogany 8 ins.diam., bears S.31°W., 9 lks. dist., marked $\frac{1}{4}$ S 35 BT This cor. is 30 ft. below top of spur.
43.90	Bottom of ravine 100 ft. below $\frac{1}{4}$ sec.cor., course SE. Ascend over SE. slope.
56.10	Top of ridge, 200 ft. above ravine, bears NE. and W. Descend over steep NW. slope.
70.75	Leave heavy and enter scattering timber, bears NE. and SW. Enter dense undergrowth bears NE. and SW.
80.00	Set a gray sandstone 24x10x8 ins., 18 ins. in the ground, for cor. of secs.25,26,35 and 36, marked with 1 notch on S. and 1 notch on E.edges; and raise mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, W. of cor. I further witness this cor. by marking bearing trees as follows: A nut pine 8 ins.diam., bears North 224 lks. .dist., marked T 34 S R 9 W S 35 BT A nut pine 10 ins.diam., bears N. 17° W., 139 lks. dist., marked T 34 S R 9 W S 26 BT

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

This cor. is 500 ft. below top of ridge.
 Land mountainous.
 Soil, gravelly and stony; 3rd and 4th rate.
 Timber, pine, balsam and cedar.
 Undergrowth, oak brush.
 Good grass for grazing.
 Mountainous or heavily timbered land or land covered
 with dense undergrowth, 80.00 chs.

Note: Knowing from retracement of the E.bdy. of Tp.
 that the line bet. secs. 25 and 36 will not close
 within limits, I run

East on a true line bet. secs. 25 and 36

Over mountainous land; through scattering timber and
 dense undergrowth.

Ascend NW. slope of ridge.

10.50 Begin more abrupt ascent bears NE. and SW.

Enter heavy timber, bears NE. and SW.

Leave dense and enter scattering undergrowth, bears NE.
 and SW.

28.90 Foot of perpendicular conglomerate ledge 30 ft. high,
 bears N. and S.

39.90 Top of ridge, 600 ft. above sec.cor., bears N. 60° E.
 and S. 60° W.

Descend.

40.00 Set a yellow sandstone 24x8x4 ins., 18 ins. in the
 ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N. face; from
 which

A cedar, 11 ins. dia., bears N. $89\frac{1}{2}^{\circ}$ W. 55 lks.
 dist., mkd. $\frac{1}{4}$ S 25 B T

A nut pine 8 ins. dia., bears S. $51\frac{3}{4}^{\circ}$ W., 59 lks.
 dist., mkd. $\frac{1}{4}$ S 36 B T

SUBDIVISION OF T. 34 S., R. 9 W.

-5-

Chains

- 65.75 Begin steep descent, bears NE. and SW.
- 73.80 Enter broken sandstone ledges, bears NE. and SW.
- 80.64 Intersect E. bdy. of Tp. 9.78 chs. S.0° 22'W. from the cor. of secs. 30 and 31, heretofore described in notes of retracement and resurvey of E.bdy.of the Tp.
Set a sandstone 18x12x5 ins., 12 ins.in the ground for closing cor. of secs. 25 and 36, mkd. C C on W. with 5 grooves on N. and 1 groove on S.faces; from which A cedar, 14 ins.dia., bears S.68 $\frac{1}{2}$ °W., 40 lks. dist., mkd. T 34 S R 9 W S 36 B T
A pinon pine, 10 ins.dia., bears N.47 $\frac{1}{2}$ °W., 51 lks. dist., mkd. T 34 S R 9 W S 25 B T
This cor. is about 700 ft.below top of last ridge.
Land, mountainous.
Soil, stony; 4th rate.
Timber, nut pine and cedar.
Undergrowth, oak brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.64 chs.
March 31, 1911: At the noon hour the sky is overcast and solar observations are impossible.

From the cor. of Secs. 25,26,35 and 36, heretofore described, I run

North on a random line between secs.25 and 26

40.00

Set temp. $\frac{1}{4}$ sec.cor.

82.45

Intersect E. and W. line 12 lks. E. of the cor.of secs. 23,24,25 and 26, heretofore described.

Thence I run

S.0° 5' E., on a true line bet. secs.25 and 26

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

Over mountainous land; through scattering timber and dense undergrowth.

Ascend.

12.50 Begin ascent of ridge, bears NE. and SW.

17.50 Begin more gradual ascent, bears NE. and SW.

21.50 Old wood road, bears NE. and SW.

25.50 Begin abrupt ascent, bears NE. and SW.

29.00 Top of steep ascent, bears NE. and SW.

Enter heavy timber, bears NE. and SW.

Ascend gradually.

31.00 Top of ridge, 300 ft. above sec.cor., bears N.70°E. and S.70°W.

Descend.

40.50 Leave heavy and enter scattering timber, bears NE. and SW.

40.75 Bottom of ravine 150 ft. below ridge, course NE.

Ascend.

42.45 Set a gray sandstone 15x8x5 ins., 10 ins. in the ground for re-established $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W. face; from which

A nut pine, 8 ins.dia., bears S.29 $\frac{3}{4}$ ° E., 14 lks.
dist., mkd. $\frac{1}{4}$ S 25 BT

A nut pine, 8 ins.dia., bears S.72 $\frac{1}{4}$ ° W., 81 lks.
dist., mkd. $\frac{1}{4}$ S 26 BT

55.50 Top of ridge, 100 ft. above $\frac{1}{4}$ sec.cor., bears N.70°E. and S.70°W.

Descend.

60.30 Wood road bears NW. and SE.

60.40 Bottom of hollow, 50 ft. below top of ridge, course NE.
Ascend gradually.

81.35 Begin steep ascent of ridge, bears NE. and SW.

83.45 The cor. of secs. 25,26,35 and 36, 100' ft. above foot of ridge.

Land mountainous.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

Soil, gravelly and stony; 3rd and 4th rate.
Timber, nut pine and cedar.
Undergrowth, sage brush and oak.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 82.45 cha.

For reasons already explained I begin at the cor. of
secs. 23, 24, 25 and 26, and run

East on a true line bet. secs. 24 and 25

Over mountainous land; through dense undergrowth.

Ascend gradually.

9.00 Feet of ridge, 100 ft. above sec.cor., bears N.E. and S.W.
Begin more abrupt ascent.

18.50 Top of ridge, 150 ft. above feet of ridge, bears N.N.E.
and S.W.

Descent.

19.55 Wood road, bears N.E. and S.W. in bottom of hollow, 75 ft.
below top of ridge.

Ascend.

20.25 Old wood road, bears N.E. and S.W.

Enter scattering timber, bears N.E. and S.W.

32.50 Top of ridge, 100 ft. above hollow, bears N.E. and S.W.
Descend abruptly.

34.25 Old road, bears N. and S.

35.00 Begin abrupt descent over ledges, bears N.E. and S.W.

35.40 Point for witness cor. falls on a surface volcanic
rock 8x4x2 ft. on which I cut a cross (x) at the
exact point for witness cor. to $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on
N. face below the cross and 70' above the cross;
from which

A cedar, 8 ins. dia., bears N. 41° E. 60 lks. dist.,
mkd. W.C. $\frac{1}{4}$ S 24 D.T. ✓

SUBDIVISION OF T. 34 S., R. 9 W.

Chains	
	No other bearing trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of witness cor.
40.00	The point for $\frac{1}{4}$ sec.cor. falls on a steep ledge and cannot be safely set.
44.00	Bottom of ravine about 150 ft. below $\frac{1}{4}$ sec.cor. and 400 ft. below ridge, course NE. Ascend.
47.70	Road on top of ridge, 125 ft. above ravine bears NE. and SW. Descend.
52.50	Bottom of hollow, 150 ft. below ridge, course NE. Ascend.
51.75	Top of ridge, 100 ft. above hollow, bears NE. and SW. Descend.
67.50	Delivery water pipe to the Parowan Electric Light Plant, course N. 30° E. The Power Plant is N. 30° E. about 3.00 chs. dist.
70.00	Foot of descent 300 ft. below ridge, bears N. 20° E. and S. 20° W. Enter bottom of Parowan or Center Creek Canon.
71.90	Parowan or Center Creek, 20 lks. wide, 1 ft. deep, rocky bottom rapid current, clear cold water, course N.
73.50	Parowan-Panguitch Telephone Line bears N. 30° W. and S.E.
76.10	Road, bears N. and S.
81.40	Begin descent into hollow, bears NW. and SE.
81.56	Intersect E.bdy. of Tp. 120 lks. S. 22° W. of the cor. of secs. 19,24,25 and 30, heretofore described. Set a sandstone 30x12x8 ins., 22 ins. in the ground, for closing cor. of secs. 24 and 25, marked CC on W. with 4 grooves on N. and 2 grooves on S.faces; from which A cedar, 16 ins. dia., bears S. $43\frac{1}{2}^{\circ}$ W., 26 lks. dist., mkd. T 34 S R 9 W S 25 BT A nut pine, 5 ins. dia., bears N. $38\frac{1}{2}^{\circ}$ W., 158 lks. dist., mkd. T 34 S R 9 W S 24 B T

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

Note: I destroy all marks on the cor. of secs. 19, 24, 25 and 30, which pertain to secs. 24 and 25.

Land, mountainous and canon bottom.

Soil, red clay and rocky; 3rd and 4th rate.

Timber, cedar and nut pine; cottonwood along creek banks.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth 81.56 chs.

March 21, 1911.

March 22, 1911: At 9h 7m a.m., l. m. t. I set off $37^{\circ} 49' N.$ on the lat.arc; $0^{\circ} 23' N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35 on the S. bdy. of Tp. heretofore described.

Thence I run

$N.0^{\circ} 1' W.$, bet. secs. 34 and 35

Over mountainous land; through dense undergrowth and scattering timber.

Descend.

6.00 Leave timber, bears NE. and SW.

13.00 Foot of steep descent 250 ft. below cor., bears NE. and SW..

Descend gradually.

40.00 Set a trachyte stone 20x12x8 ins., 15 ins. in the ground for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W. face; from which

A nut pine, 8 ins. dia., bears $N.31\frac{1}{2}^{\circ} E.$, 110 lks.
dist., mkd. $\frac{1}{4}$ S 35 B T

A nut pine, 10 ins. dia., bears $N.45\frac{1}{2}^{\circ} W.$, 128 lks.
dist., mkd. $\frac{1}{4}$ S 34 B T

This cor. is 100 ft. below steep descent.

40.50 Trail bears NE. and SW.

41.50 Bottom of Maple Spring Hollow, 20 ft. below $\frac{1}{4}$ sec.cor.,

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

course NE.

Ascend.

67.00 Top of ridge, 300 ft. above hollow, bears NE. and SW.

Descend.

80.00 Set a granite stone 20x13x5 ins., 15 ins. in ground,
for cor. of secs. 26, 27, 34 and 35, marked with 1
notch on the S. and 2 notches on E. edges; and raise a
mound of stone $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

This cor. is 100 ft. below top of ridge.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, pine and balsam.

Undergrowth, oak, mahogany, serviceberry, maple and
sage brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,

80.00 chs.

East on a random line between secs. 26 and 35

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.06 Intersect N. and S. line 14 lks. N. of the cor. of secs.
25, 26, 35 and 36.

Thence I run

N. $89^{\circ} 54' W.$ on a true line between secs. 26 and 35

Over mountainous land; through scattering timber and
dense undergrowth.

Descend steep NW. slope.

1.85 Foot of steep descent, bears NE. and SW.

Descend gradually.

23.00 Old road bears NE. and SW.

38.50 Bottom of hollow, 250 ft. below sec.cor., course N.

Ascend.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

40.03 Set a sandstone 20x10x5 ins., 15 ins.in the ground,for
 $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which

A nut pine, 8 ins.dia., bears N. $33\frac{1}{2}$ °W., 123 lks.
dist., mkd. $\frac{1}{4}$ S 26 BT

A nut pine, 8 ins.dia., bears S. $69\frac{1}{2}$ °E., 68 lks.
dist., mkd. $\frac{1}{4}$ S 35 BT

This cor. is 30 ft.above bottom of hollow.

42.25 Top of ridge, 50 ft.above $\frac{1}{4}$ sec.cor., bears N.30°E.
and S.30°W.

Descend over NW. slope.

49.85 Bottom of hollow, 150 ft.below ridge, course N.30°E.
This is known as Maple Spring Hollow.

Ascend.

66.00 Top of ridge, 250 ft.above hollow, bears NE.and SW.
Descend over NW. slope.

80.06 The cor.of secs.26,27,34 and 35, 100 ft.below ridge.

Land, mountainous.

Soil, red clay and gravelly;3rd rate.

Timber,cedar and nut pine.

Undergrowth, sage brush, oak and serviceberry.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth
80.06 chs.

March 22, 1911: At this cor. I set off 0° 26'N. on
the decl.arc; and at 12h 7m p.m., l.m.t., observe
the sun on the meridian; the resulting lat. is 37°
50'N. which is the proper lat. nearly.

N.0° 01' W. on a random line betsecs.26 and 27

40.00 Set temp. $\frac{1}{4}$ sec.cor.

81.76 Intersect the E. and W. line 7 lks. E. of the cor.of
secs. 22,23,26 and 27 heretofore described.

Thence I run

SUBDIVISION OF T. 34 S., R. 9 W.

Chains	
	S.0° 4'E., on a true line bet. secs. 26 and 27 Over mountainous land; through scattering timber and dense undergrowth.
	Ascend.
10.00	Top of spur, 150 ft. above sec. cor., bears NE. and SW. Descend.
14.90	Bottom of ravine 200 ft. below spur, course NE. Ascend.
30.00	Enter bottom of ravine 30 ft. deep, course NW. Thence along bottom of ravine.
32.00	Leave ravine, course N. Continue ascent.
41.76	Set a trachyte stone 16x8x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; from which A cedar 10 ins. dia., bears N. 72° E., 27 lks. dist., mkd. $\frac{1}{4}$ S 26 B T A Cedar 10 ins. dia., bears N. 22 $\frac{1}{4}$ °W., 25 lks. dist., mkd. $\frac{1}{4}$ S 27 B T This cor. is 100 ft. above ravine.
51.40	Ravine 40 ft. deep, course NW. Continue ascent.
52.00	Leave timber, bears NW. and SE.
81.76	The cor. of secs. 26, 27, 34 and 35, 200 ft. above ravine. Land, mountainous. Soil, clay and rocky; 3rd and 4th rate. Timber, cedar and nut pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land or land covered with dense undergrowth, 81.76 chs.

March 22, 1911.

July 25, 1908: At the cor. of secs. 3, 4, 33 and 34 on
the south boundary of the Tp. heretofore described,

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

I set off $19^{\circ} 38'$ N. on the decl.arc; and at 0h
6m p.m., l.m.t., observe the sun on the meridian; the
resulting lat. is $37^{\circ} 49'N$. which is the proper lat.
nearly.

Thence I run

North $0^{\circ} 1'$ W. bet. secs. 33 and 34

Over mountainous land; through dense undergrowth.

Descend.

6.00 Bottom of swale, 25 ft. below sec.cor., course $N.10^{\circ}W$.

Ascend gradually.

13.50 Enter heavy cedar and nut pine timber, bears E. and W.

40.00 Set a trachyte stone $20 \times 10 \times 8$ ins., 15 ins. in the ground
for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face; from which

A nut pine 9 ins.dia., bears $N.55\frac{1}{2}^{\circ}E.$, 59 lks.

dist., mkd. $\frac{1}{4} S 34 B T$

A nut pine, 10 ins.dia., bears $N.25\frac{3}{4}^{\circ}W.$, 11 lks.

dist., mkd. $\frac{1}{4} S 33 B T$

This cor. is 50 ft. above swale.

60.00 Top of spur, 50 ft. above $\frac{1}{4}$ sec.cor., bears E. and W.

Descend abruptly.

66.60 Bottom of ravine 400 ft. below spur, course NW.

Ascend.

68.90 Wood road bears NW. and SE.

80.00 Set a quartzite stone $14 \times 8 \times 5$ ins., 9 ins. in the ground,
for cor. of secs. 27, 28, 33 and 34, marked with 1' notch
on S. and 3' notches on E.edges; from which

A nut pine, 7 ins.dia., bears $N.48\frac{3}{4}^{\circ}E.$, 19 lks.

dist., mkd. T 34 S R 9 W S 27 B T

A nut pine 8 ins.dia., bears $S.1^{\circ} E.$, 45 lks.

dist., mkd. T 34 S R 9 W S 34 B T

A nut pine 7 ins.dia., bears $S.55\frac{3}{4}^{\circ}W.$, 85 lks.

dist., mkd. T 34 S R 9 W S 33 B T

A nut pine, 8 ins.dia., bears $N.78\frac{3}{4}^{\circ}W.$, 37 lks.

dist., mkd. T 34 S R 9 W S 28 B T

This cor. is 300 ft. above ravine.

SUBDIVISION OF T. 34 S., R. 9 E.

Chains

Land, mountainous.

Soil, clay and gravelly; 3rd rate.

Timber, cedar and nut pine.

Undergrowth, mahogany, oak and serviceberry.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, \$0.00 chs.

July 25, 1908.

March 23, 1911: At this cor. I set off $0^{\circ} 50' N.$ on the decl.arc; and at $12h\ 7m$ p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ} 50' N.$ which is the proper lat. nearly.

East on a random line bet. secs. 27 and 34

40.00 Set temp. 1 sec.cor.

30.14 Intersect N. and S. line 36 lks. N. of the cor. of secs. 36, 27, 34 and 35.

Thence I run

$N.89^{\circ} 49' W.$ on a true line bet. secs. 27 and 34

Over mountainous land; through dense undergrowth.

Descend.

16.20 Bottom of ravine 200 ft. below sec.cor., course NW.

Ancend.

34.00 Enter heavy timber bears NE. and SW.

Leave dense and enter scattering undergrowth, bears NE. and SW.

Begin more abrupt ascent, bears NE. and SW.

40.07 Set a trachyte stone $20 \times 10 \times 8$ ins., 15 ins. in the ground for 1 sec.cor., marked 1 on N. face; from which

A nut pine, 8 ins. dia., bears N. $21\frac{1}{2}$ E., 43 lks.

dist., mid. 1 S 27 E T

A nut pine, 8 ins. dia., bears S. $49\frac{1}{2}$ E., 40 lks.

dist., mid. 1 S 34 E T

This cor. is 250 ft. above ravine.

48.00 Top of ridge, 75 ft. above 1 sec.cor., bears NE. and SW.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains	
80.14	<p>Descend. The cor. of secs. 27, 28, 33 and 34, 150 ft. below ridge. Land, mountainous. Soil, clay and rocky; 3rd and 4th rate. Timber, cedar and nut pine. Undergrowth, sage and oak brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.14 chs.</p>
	March 23, 1911
40.00	<p>July 26, 1908. At the cor. of secs. 27, 28, 33 and 34, I set off $19^{\circ} 25' N.$ on the decl. arc; and at 13h 6m p.m., l.m.t., observe the sun on the meridian, the resulting lat. is $37^{\circ} 49'$ which is the proper lat. nearly.</p> <p>N. $0^{\circ} 01' W.$, on a random line bet. secs. 27 and 28 Set temp. $\frac{1}{4}$ sec. before running the boundary.</p>
80.70	<p>Intersect E. and W. line 200 lks. W. of the cor. of secs. 21, 22, 27 and 28, heretofore described.</p> <p>Thence I run S. $0^{\circ} 08' W.$ on a true line bet. secs. 27 and 28 Over nearly level land; through scattering timber and dense undergrowth.</p> <p>Ascend gradually.</p>
4.00	<p>Begin more abrupt ascent, bears NE. and SW.</p>
23.40	<p>Wood road, bears NE. and SW.</p>
28.00	<p>Begin steep ascent, bears NE. and SW.</p>
35.00	<p>Top of spur, 300 ft. above foot of descent, bears N. 60° W. and S. $60^{\circ} E.$</p>
40.70	<p>Descend abruptly.</p> <p>Set a quartzite stone 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. This cor. is 200 ft. below top of spur.</p>
42.00	<p>Bottom of ravine 150 ft. below $\frac{1}{4}$ sec. cor., course N. 60° W. Ascend.</p>

SUBDIVISION OF T. 34 S., R. 9 W.

Chains	
43.60	Top of spur, 50 ft. above ravine, bears N. 60° W. and S. 60° E.
	Descend.
44.50	Ravine, 100 ft. below spur, course NW.
	Ascend abruptly.
68.00	Top of ridge, 500 ft. above ravine, bears N. 70° W. and S. 70° E.
	Enter heavy timber, bears N. 70° W. and S. 70° E.
	Descend.
80.70	The cor. of secs. 27, 28, 33 and 34, 150 ft. below ridge.
	Land, mountainous and nearly level.
	Soil, clay and gravelly 3rd rate.
	Timber, cedar and nut pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.70 chs.
	July 26, 1908.

July 37, 1908: At 7h 6m a.m., l.m.t., I set off $37^{\circ} 49'N.$ on the lat.arc; $19^{\circ} 15'N.$ on the decl.arc; and determine a meridian with the solar at the cor.of secs. 4,5,32 and 33, on S.bdy.of the Tp., heretofore described.

Thence I run N. $0^{\circ} 2'W.$ on a random line bet.secs. 32 and 33. Set temp. $\frac{1}{4}$ sec.cor.

Intersect E. and W.line 2 lks. E. of the cor.of secs. 28 32 and 33, heretofore described.

Thence I run S. $0^{\circ} 3'E.$ on a true line bet.secs.32 and 33 Over mountainous land; through heavy timber and scattering undergrowth.

Ascend.

SUBDIVISION OF T. 34 S., R. 9 W.

Chains

9.00	Top of spur, 150 ft. above sec.cor., bears E. and W. Descend gradually.
32.35	Old road, bears NE. and SW.
37.25	Top of spur, 50 ft. high, bears E. and W. Descend.
39.75	Bottom of hollow, 50 ft. below spur, course NW. Ascend gradually.
39.95	Set a white sandstone 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face; from which A nut pine, 20 ins. dia., bears N. 78° E., 195 lks. dist., mkd. $\frac{1}{4}$ S 33 B T
	No other trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
43.50	Begin steep ascent of ridge, bears E. and W.
74.50	Top of ridge, 800 ft. above $\frac{1}{4}$ sec.cor.; bears N. 85° W. and S. 85° E. Descend.
79.90	The cor.of secs.4,5,32 and 33, 30 ft. below ridge. Land, mountainous. Soil, clay and gravelly; 3rd rate. Timber, cedar and nut pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 79.90 chs. July 27, 1908: At this cor. I set off 19° 12' N. on the decl.arc; and at Oh' 6m p.m., 1.m.t., observe the sun on the meridian; the resulting lat.is 37° 49' N. which is the proper lat.nearly.

From the cor.of secs.28,29,32 and 33, heretofore described.

I run

East on a random line betsecs.28 and 33

SUBDIVISION T. 34 S., R. 9 W.-

Chains	
40.00	Set. temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N. and S. line 5 lks. N. of the cor.of secs.27, 28, 33 and 34. Thence I run N.89°58'W.on a true line bet.secs.38 and 33 Over mountainous land; through heavy timber and scatter- ing undergrowth.
.75	Descend. Bottom of hollow, 25 ft.below sec.cor., course S. Ascend.
14.00	Top of ridge, 200 ft.above hollow, bears N.70°E. and W. Thence along top of ridge.
19.00	Road, bears N.80°W. and S.80°E.
20.00	Leave ridge, bears N.80°W. and E. Descend.
40.02	Set a sandstone 20x12x6 ins., 15 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face; from which A cedar, 6 ins.dia., bears N.36°E., 63 lks.dist., mkd. $\frac{1}{4}$ S 28 B T A cedar, 8 ins.dia., bears S.69 $\frac{1}{2}$ °W., 34 lks.dist., mkd. $\frac{1}{4}$ S 33 B T This cor. is 200 ft.below ridge.
46.80	Wood road, bears NW.and SE.
58.50	Wood road, bears NW. and SE.
66.00	Bottom of hollow, 300 ft.below $\frac{1}{4}$ sec.cor., course NW. Ascend.
68.00	Old road, bears NW. and SE.
75.75	Top of spur, 150 ft.above hollow, bears N. and S. Descend.
80.04	The cor.of secs.28,29,32 and 33, 75 ft.below spur. Land, mountainous. Soil, gravelly and cly; 3rd rate. Timber, cedar and nut pine.. Undergrowth, sage brush. Good grass for grazing.

SUBDIVISION OF T. 34 S., R. 9 E.

Chains

Mountainous or heavily timbered land, 80.04 acs.

July 27, 1906.

GENERAL DESCRIPTION

This fractional township lies mostly on the north slopes of a high range of the Wasatch Mountains, cut with deep ravines, hollows and canons, which drain into the Parowan Valley.

Cedar and nut pine are the principal kinds of timber. Along the south sides of secs. 34 and 35, there is some red, white, and yellow pine and balsam timber; and along the creek banks, cottonwood and maple.

The soil is rich, but gravelly and stony. The gravelly soil generally produces an abundance of under-growth, shrubbery and grasses, which afford good grazing.

No mining locations nor minerals of any kind were found in the township. Some good building stone has been taken from the sandstone ledges adjoining the Parowan or Center Creek bottom.

The Parowan or Center Creek stream furnishes plenty of clear fresh water for culinary and domestic purposes and water power for the propelling of machinery.

An old saw mill in SW^{1/4} sec. 36, formerly run by water power has been for some time closed down.

The Parowan City Electric Light Power Plant in SE^{1/4} sec. 24, consisting of a brick dwelling house, power house, with machinery, water pipes and canal carrying water from Center Creek stream to the power plant furnishes lights for the lighting of Parowan City and power for the propelling of machinery.

Mr. Jackson, an employee of Parowan City, resides at the Power Plant.

General Description of T.34 S., R.9 W.

This plant is connected both by electric wires and telephone communication with Parowan City.

The Government telephone line connecting Parowan City with Panguitch and with stations in the Sevier Forest Reserve runs through the Parowan or Center Creek Canon.

There is considerable travel through this canon during the summer months, especially to the mountain ranches and to Panguitch Lake and other pleasure resorts.

John Davenport Jr., at Maple Springs, in SE $\frac{1}{4}$ of sec. 34, has a cabin, corral, calf pen, spring and small reservoir fenced, with watering troughs, of the value of about \$300.00. These improvements were not seen from line.

Tp.
This fractional ^A being near Parowan City is used by the inhabitants thereof for grazing purposes.

The land is agricultural in character and most valuable for grazing purposes. The timber in the township is valuable for fuel and for fencing.

Mayhew H. Galley

U. S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, owing the respective capacities in which they acted:

For final oath of assistants, 1908, see book "V" T.35 S., *Chainman.*
R.8 W. _____, *Chainman.*
_____, *Moundman.*
_____, *Moundman.*
_____, *Axman.*
_____, *Axman.*
_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____
meridian, _____ of _____, which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
general for _____

_____, *Chainman.*
_____, *Chainman.*
_____, *Moundman.*
_____, *Moundman.*
_____, *Axman.*
_____, *Axman.*
_____, *Flagman.*

scribed and sworn to before me this _____, 190_____ }
day of _____, 190_____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John Doe, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for bearing date of the day of 190, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

the survey of of the section and town lines of the meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 5, 1846.

United States Deputy Surveyor.

Subscribed by said John Doe, and sworn to before me this day of 190

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APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

The foregoing field notes of the survey of executed by under his contract No. dated 190, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by M. a y h e w . H. D a l l e y,
United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the Subdivision
of Tp. 34 S. of R. 9 W., of the Salt Lake Base and Meridian,
showing the respective capacities in which they acted:

William Dalley, , Chainman.
Maeser Dalley, , Chainman.
William Dalley, , Moundman.
Maeser Dalley, , Moundman.
Rulon Dalley, , Axman.
Maeser Dalley, , Axman.
Rulon Dalley, , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted M. a y h e w . H. D a l l e y,
United States Deputy Surveyor, in surveying all
those parts or portions of the Subdivision of Tp. 34 S. of Range 9 West
of the Salt Lake
base and meridian, State of Utah, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

William Dalley, , Chainman.
Maeser Dalley, , Chainman.
William Dalley, , Moundman.
Maeser Dalley, , Moundman.
Rulon Dalley, , Axman.
Maeser Dalley, , Axman.
Rulon Dalley, , Flagman.

scribed and sworn to before me this 31st. }

day of March, 1911. } William Gouchnum,

000000
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REAL
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Notary Public, Iron County, Utah.

Commission expires May 21, 1913.

BOOK A-374
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for the State of Utah, bearing date of the 11th day of April, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of Tp. 34 S. of R. 9 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 18th day of July, 1912. }



Chas. D. Adams
Clerk of District Court.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913

The foregoing field notes of the survey of the subdivisional lines in fractional Township No. 34 South, Range No. 9 West, of the Salt Lake Base and Meridian, Utah

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

James K. Kelly
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-374

I.

FILED

FEB 1 1909

FIELD NOTES

OF THE ~~XX~~ RETRACEMENT OF THE

EAST BOUNDARY

and

retracement and resurvey of the

WEST BOUNDARY

of

Township No. 36 South, Range No. 9 West.

Of the Salt Lake Base and Meridian,

STATE OF UTAH

AS SURVEYED BY

Mayhew H. Dalley, United States Deputy Surveyor,

Under his Contract No. 241, dated April 11, 1901, #38

Retracement and Survey commenced August 27, 1907., #38

Retracement and Survey completed August 31, 1907., #38X

6-161

Book 3-04-24 ✓
 meet 6-16-98 see Cover Books I to Book 3
 9-25-24

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley	Chainman
John A. Elliker	Chainman
Maeser Dalley	Moundman
John H. Lunt	Moundman
Earl Gower	Axman
John H. Lunt	Axman
Walter Lunt	Flagman

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Volume

R0374

BOOK A-374

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Hillman Dalley and John A. Elliker

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement of the fractl. East Boundary, and the retrace and resurvey of the fractl. West Boundary of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Hillman Dalley Chairman.

John A. Elliker Chairman.

Subscribed and sworn to before me this 24th }

day of August 1907, 19xx



My Commission Expires
May 16th, A. D. 1911.

Notary Public

Sessora L. Dalley

We, Maeser Dalley and John H. Lunt

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the retracement of the fractl. East Boundary and the retrace and resurvey of the fractl. West Boundary of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Maeser Dalley, Moundman.

John H. Lunt, Moundman.

Subscribed and sworn to before me this 24th }

day of August 1907, 19xx



My Commission Expires
May 16th, A. D. 1911.

Notary Public

Sessora L. Dalley

We, Earl Gower and John H. Lunt

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the retracement of the fractl. East Boundary and the retrace and resurvey of the fractl. West boundary of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah.

Earl Gower, Axman.

Jahn H. Lunt, Axman.

Subscribed and sworn to before me this 24th }

day of August 1907, 19xx



My Commission Expires
May 16th, A. D. 1911.

Notary Public

Sessora L. Dalley

I, Walter Lunt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement of the fractl. East Boundary and the retrace and resurvey of the fractl. West Boundary of T. 36 S., R. 9 W., Salt Lake Base and Meridian, Utah.

Walter Lunt, Flagman.

Subscribed and sworn to before me this 24th }

day of August 1907, 19xx



My Commission Expires
May 16th, A. D. 1911.

Notary Public

Sessora L. Dalley

2.

Retracement of East Boundary of T.36 S., R.9 W.-Continued.

Chains.

August 28, 1907: At 6h30m a.m., l.m.t., I lay off the Azimuth of Polaris $10^{\circ}30'$ to the west and mark the meridian thus determined by cutting a cross(x) on the stone already set 5.00 chs. N. of the cor., on which the meridian falls 0.58 ins. E. of the mark determined by the solar.

At 7h 1m a.m., l.m.t., I set off $37^{\circ}38'$ N. on the lat. arc; $100^{\circ}2'$ N. on the decl. arc; and mark a point in the meridian determined with the solar by a small groove cut on the stone already set 5.00 chs. N. of my station; this mark falls 0.33 ins. E. of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations define positions for meridians respectively about $6^{\circ}20'$ W., and $6^{\circ}17'$ E. of the meridian established by Polaris observation; therefore I conclude the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7h30m a.m., l.m.t., is N. $15^{\circ}.50'$ W.; the angle thus determined gives the magnetic declination $15^{\circ}.50'$ E.

Note.-Before commencing the subdivision of this township I proceed to retrace a part of the East and West Bds. of the Tp. as follows:

Begin at the cor. of Tps. 36 and 37 S., R.9 W. above described.

Thence I run

North on a retracement line along E.bdy.sec.36.

Over mountainous land; through heavy timber.

Descend gradually over bed of volcanic rocks.

1.

Retracement of East Boundary of T.36 S., R.9 W.

Chains.

Survey commenced August 27, 1907, and executed with a W. and L. E. Gurley Light Mountain Solar Transit No. 31, provided with R. M. Jones double latitude arc, and reversible bubble.

The horizontal limb is provided with two double verniers, placed opposite to each other, which read to single minutes of arc; the smaller and larger latitude arcs read with verniers to single minutes and to ten seconds of arc respectively.

The Instrument was examined, tested on the True Meridian at Salt Lake City, Utah, found correct, and was approved by the Surveyor General for Utah, July 27, 1901.

I examine the adjustments of the Transit and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m., hours with a meridian determined by observation on Polaris, I proceed as follows:

August 27, 1907: At the SE cor. of Tp. 36 S., R. 9 W., 20 which is a cross(X) cut on a volcanic stone 4x2x1 1/2 ft. above ground, marked by me for cor. of Tps. 36 and 37 S., R. 9 W., latitude $37^{\circ} 38' 11''$ N., longitude $112^{\circ} 46' 03''$ W. I set off $37^{\circ} 38'$ N. on the lat. arc; $10^{\circ} 16'$ N. on the decl. arc; and ^{at 2h 20m p.m.} _{determine} a meridian with the solar and mark a point thereof on a stone set firmly in the ground 5.00 chs. N. of the cor.

At 9h 10m p.m., l.m.t., I observe Polaris at Eastern Elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined by a tack in a wooden plug driven firmly in the ground 5.00 chs. N. of my station.

August 27, 1907.

Retracement of East Boundary of T.36 S., R.9 W.-Continued.

Chains.	
12.50	Leave heavy and enter scattering timber bears N.20° E. and S.20° W.
14.40	Leave volcanic rocks, bears E. and W.
36.00	Leave timber bears E. and W. Enter lava bed bears E. and W.
43.12	The 1/4 sec.cor.on E.bdy.sec.36, which is a stationary lava stone 3x2x1 ft. above ground, marked, and witnessed as described by the Surveyor General.
42.50	Leave lava bed bears E. and W.
50.00	Enter heavy timber bears E. and W.
62.40	Creek 2 lks. wide 2 ins. deep in hollow, about 75 ft. below 1/4 sec.cor.course NE. Ascend.
70.00	Top of spur 150 ft. above creek, bears E. and W. Descend.
75.49	The closing cor.of Tps.36 and 37 S., R.8 W., which is a lava stone 9x12x3 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.
79.00	Leave timber bears E. and W.
80.60	Bottom of hollow 50 ft. below ridge, course E. Ascend.
83.64	The cor.of secs.25 and 36, which is a volcanic stone 9x- 12x10 ins. above ground, firmly set and marked and wit- nessed as described by the Surveyor General. Land mountainous. Soil, stony and gravelly; 4th. and 3rd. rate. Timber, pine and aspen. Good grass for grazing. Mountainous or heavily timbered land, 83.64 chs.

Retracement of East Boundary of T.36 S., R.9 W.-Continued.

Chains.

North on a retracement line along E.bdy.sec.25.

40.14 The 1/4 sec.cor.on E.bdy.sec.25, which is a volcanic stone 8x8x7 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

71.97 The closing cor.of secs.30 and 31, subdivision T.36 S., R.8 W., which is a volcanic stone 8x10x6 ins., above ground, firmly set and marked and witnessed as described by the Surveyor General..

80.30 The cor.of secs.24 and 25, which is a volcanic stone 9x12x6 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

August 28, 1907: At this cor.I set off 9057' N.on the decl.arc; and, at 6^h 1m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 40'. N., which is the proper lat. nearly.

Note.-No change in topography from original notes.

North on a retracement line along the E.bdy.sec.24.

40.16 The 1/4 sec.cor.on E.bdy.sec.24, which is a volcanic stone 9x12x5 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

72.27 The closing cor.of secs.19 and 30, subdivision T.36 S., R.8 W., which is a volcanic stone 10x10x9 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

80.30 The cor.of secs.15 and 24, which is a volcanic stone 10 x12x6 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

Note.-No change in topography from original notes.

August 28, 1907.

Retracement and Resurvey of West Boundary of T.36 S., R.9 W.

Chains.

August 29, 1907: At 7^h 1m a.m., l.m.t., I set off 37° 42' N. on the lat. arc; 90° 41' N. on the decl. arc; and determine a meridian with the solar at the cor. of secs. 7, 12, 13 and 18, on W. bdy. of Tp., which is a volcanic stone 6x12x12 ins. above ground, firmly set, and marked and witnessed as described by the Surveyor General.

Thence I run

South 0° 30' E. on a retracement line bet. secs. 13 and 18.

39.96 Fall 50 lks. E. of the 1/4 sec. cor. bet. secs. 13 and 18, which is a volcanic stone 9x12x8 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

79.96 Fall 100 lks. E. of the cor. of secs. 13, 18, 19 and 24, which is a volcanic stone 8x12x10 ins. above ground, firmly set and marked and witnessed as described by the Surveyor General.

The course of this line is therefore South 0° 13' W.

79.96 chs.

Note.-No change in topography from original notes.

August 29, 1907: At this cor. I set off 90 35' N. on the decl. arc; and, at 9h 1m p.m., l.m.t., observe the sun on the meridian; the resulting lat. is 37° 41' N., which is the proper lat. nearly.

South 0° 30' E. on a retracement line bet. secs. 19 and

24.

Over mountainous land; through scattering timber.

Retracement and Resurvey of West Boundary of T.36 S., R.9 W.-Contd.

Chains.

Ascend.

15.00 Top of ridge 100 ft. above sec.cor.bears E.and W.

Descend over black volcanic rocks.

Enter dense undergrowth bears E.and W.

16.50 Leave black rocks bears E.and W.

32.25 Fall 4.10 chs.E.of the 1/4 sec.cor.betsecs.19 and 24,
which is a volcanic stone 6x12x10 ins.above ground,
firmly set and marked and witnessed as described by the
Surveyor General.The course of this line is therefore, S.60°45' W.52.47
chs.

Land - Mountainous.

Soil, gravelly and rocky; 3rd. and 4th. rate.

Timber, aspen.

Undergrowth, oak and mahogany.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
32.47 chs.

August 29, 1907.

August 30, 1907: At 7h 1m a.m.l.m.t., I set off 37°40' N.
on the lat.arc; 90° 20' N.on the decl.arc; and determine
a meridian with the solar at the 1/4 sec.cor.betsecs.
19 and 24.

Hence I run

South 0° 30' E.on a retracement line bet.the S.halves
of secs.19 and 24.40.00 Find no trace of the old cor.of secs.19,24,25 and 30.
therefore I continue my line S.0° 30' E.

Retracement and Resurvey of West Boundary of T.36 S., R.9 W.-Contd.

Chains.

80.00 Find no trace of the 1/4 sec.cor.bet.secs.25 and 30.
Set temp.1/4 sec.cor.

117.60 Top of breaks on N.side of left hand fork of Coal Creek
Canon .Find no trace of old witness.corner.
It is impossible to chain across this chasm; therefore
to determine the distance across,I set temp.witness cor.
at this point, and set up a flag at the temp.witness
point;then I proceed to the top of breaks on S.side of
chasm to a point on line, and measure a base N.89°30' E.
26.00 chs. to a point, whence the flag on N.side of
chasm bears N.44°55' W.I compute the distance across
the chasm as follows:

$$\text{Tan. } 45^\circ 35' \times 26.00 \text{ chs. or } 1.02057 \times 26.00 = 26.40 \text{ chs.}$$

Also 117.60 + 26.40 makes

138.00 To S.side of chasm.

Find no trace of witness cor.to secs.25,30,31 and 36.

Set temp.witness cor.

173.27 Fall 40 lks.E.of the 1/4 sec.cor.bet.secs.31 and 36,
which is a sandstone 5x10x8 ins.above ground,firmlly set
and marked and witnessed as described by the Surveyor
General.

I raise a mound of stone 2 ft.base 1 1/2 ft.high W.of
I begin at this 1/4.sec.cor.and run S.

South 0° 30' E:on retracement line bet.the S.halves of
secs.31 and 36.

Over mountainous land;through dense undergrowth.

Ascend.

3.60 Road bears E.and W.

4.70 Road bears NE and SW.

8.00 Enter heavy pine and aspen timber bears E.and W.

37.00 Leave timber bears E.and W.

38.70 Trail bears NW and SE.

40.00 Fall 9 lks. E.of the cor.of Tps.36 and 37 S.,Rs.9 and

8..

Retracement and Resurvey of West Boundary of T.36 S., R.9 W.-Contd.

chains.

16 W., heretofore described.

The course of this line is therefore South $60^{\circ} 22'$ E.

40.00 chs.

Land mountainous.

Soil, gravelly; 3rd rate.

Timber, pine and aspen.

Undergrowth, oak, serviceberry and chokecherry.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 40.00 chs.

August 30, 1907.

August 31, 1907: At 7^h 1^m a.m., l.m.t., I set off 37° 39' N. on the latl.arc; 80° 58' N. on the decl.arc; and determine a meridian with the solar at the 1/4 sec.cor.bet.secs.

31 and 36.

Note.-Not being able to find any of the old cor.bet. this cor. and the 1/4 sec.cor.bet.secs. 19 and 24, I resurvey the Range line bet. these two corners by setting the corners at proportionate distances and on line bet. the two corners.

The course of the resurvey line will, therefore, be North $60^{\circ} 22'$ W., and length of each half mile 43.32 chs.

Therefore I run

North $60^{\circ} 22'$ W. along the North half of the E.bdy.sec. 36, knowing that closing corners will be required on this bdy. for the subdivision of T.36 S., R.9 W.

From this cor. Hyrum Corry's cabin bears S. 59° E. about 10.00 chs. dist. His corral is 1.00 ch. N. of cabin.

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es book 1
e 3.

Resurvey of the West Boundary of T. 36 S., R. 9 W.-Continued.

Chains.

William Leigh's cabin bears N. 76 1/4° E. about 7.00 chs. dist. His corral is NW of cabin about 2.00 chs. dist. Over mountainous land; through dense undergrowth.

Descend.

- 1.00 Enter scattering timber bears E. and W.
- 5.25 Trail bears E. and W.
- 9.25 Begin abrupt descent over ledges bears E. and W.
- 13.50 Creek 3 lks. wide, 4 ins. deep, in bottom of gulch 250 ft. below 1/4 sec. cor., course N. 70° W.
This creek is known as Crystal Creek.
- Ascend abruptly over ledges.
- 20.00 Leave ledges bears N. 70° W. and S. 70° E.
- 22.70 Road bears N. 70° W. and S. 70° E.
- 28.50 Top of ridge 400 ft. above gulch bears E. and W.
Descend abruptly.
- 29.00 Enter heavy timber bears E. and W.
- 31.70 Road bears NE and SW.
- 35.28 Top of breaks on S. side of left hand fork of Coal Creek Canon. Find no trace of old witness cor.
Set a yellow sandstone 15x10x4 ins., 10. ins. in the ground, for witness cor. to cor. of secs. 25 and 36, marked WC on NE face; with 5 notches on N. and 1 notch on S. edges; from which
A balsam 12 ins. dia., bears S. 51 1/2° W. 37 lks. dist., mkd. WC T 36 S R 10 W. S 36. B T.
A balsam 8 ins. dia., bears N. 42 o W. 24 lks. dist., mkd. WC T 36 S R 10 W. S 25 B T.
- 38.00 (About) left hand fork of Coal Creek about 12 lks. wide, 6 ins. deep, in bottom of chasm, 400 ft. deep, course SW.
- 45.32 The point for cor. of secs. 25 and 36, falls in chasm and cannot be set.
Land mountainous.
Soil, gravelly loam and rocky; 2nd. and 4th. rate.

Resurvey of West Boundary of T. 36 S., R. 9 W.-Continued.

Chains.	<p>Timber, pine, balsam and aspen.</p> <p>Undergrowth, oak and serviceberry.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 43.32 chs.</p>
corrective tes book 1, ge 4	<p>North $0^{\circ} 22'$ W. on resurvey line along the E. bdy. of sec. 25.</p> <p>Over mountainous land; through scattering timber.</p> <p>Ascend abruptly over ledges.</p>
12.36	<p>Top of ledges on N. side of left hand fork of Coal Creek canon, about 300 ft. above cor. point for cor. of secs. 25 and 36.</p> <p>Find no trace of old witness cor.</p> <p>The point for witness cor. falls on ledge 8 ft. wide and 100 ft. high, on which I cut a cross(x) at exact cor. point, for witness cor. to cor. of secs. 25 and 36, marked WC NE of cross(x) with 5 notches on N. and 1 notch on S. side of cross(x); from which</p> <p>A nut pine 12 ins. dia., bears N. $14^{\circ} 1/2^{\circ}$ W. 63 lks. dist., mdkd. WC T 36 S R 10 W. S 25 B T.</p> <p>No other trees within limits; raise a mound of stone 2 ft. base 1 1/2 ft. high W. of cor.</p> <p>Continue ascent.</p>
12.85	Enter heavy timber bears E. and W.
25.00	Leave heavy and enter scattering timber bears E. and W.
	Enter dense undergrowth, bears E. and W.
43.32	<p>Find no trace of old 1/4 sec. cor.</p> <p>Set a yellow sandstone 16x10x6 ins., 11 ins. in the ground, for 1/4 sec. cor., marked 1/4 on W. face; and raise a mound</p>

Resurvey of West Boundary of T.36 S., R.9 W.-Continued.

Chains.	of stone 2 ft. base, 1 1/2 ft. high W. of cor.
76.30	Top of ridge 400 ft. above witness cor. and 200 ft. above 1/4 sec. cor., bears NE and SW. Descend.
84.70	Trail bears NE and SW.
86.64	Find no trace of old cor. of secs. 19, 24, 25 and 30. Set a volcanic stone 18x12x5 ins., 12 ins. in the ground, for cor. of secs. 24 and 25, marked with 4 notches on N. and 2 notches on S. edges; from which An aspen 6 ins. dia., bears S. 27 1/4° W. 94 lks. dist., mkd. T 36 S R 10 W S 25 B T. An aspen 6 ins. dia., bears N. 88 1/4° W. 70 lks. dist., mkd. T 36 S R 10 W S 24 B T.
	Land mountainous. Soil, gravelly and stony; 3rd. and 4th. rate. Timber, pine and aspen. Undergrowth, oak, serviceberry and chokecherry. Good grass for grazing. Mountainous or heavily timbered land or land covered with dense undergrowth, 86.64 chs. August 31, 1907: At the noon hour the sky is overcast and solar observations are impossible.
1.30	North 00 22' W. on resurvey line along the E. bdy. of sec. 24. Over mountainous land; through scattering timber and dense undergrowth. Descend. Bottom of ravine 10 ft. deep, course W. Ascend.

See corrective notes Book 1 page 5.

Resurvey of west Boundary of T.56 S., R.9 W.-Continued.

Chains.	
43.32	The 1/4 sec.cor.betsecs.19 and 24, heretofore described. No. 43.32 chs. 43.32 chs.
	Land mountainous.
	Soil, gravelly; 3rd. rate.
	Timber, pine, and aspen.
	Undergrowth, oak.
	Good grass for grazing.
	Mountainous land or land covered with dense undergrowth.
43.32 chs.	
	August 31, 1907.
	For general description see subdivision of this town- ship.

Resurvey of West Boundary of T. 36 S., R. 9 W.-Continued.

13.

BOUNDARIES OF T. 36 S., R. 9 W.

Latitudes, departures and closing errors.

Line Designated.	True Bearing	Dist- ance.	Latitudes.		Departures.	
			N.	S.	E.	W.
		Chs.	Chs.	Chs.	Chs.	Chs.
W.bdy.T.36 S.,R.9 W.	N. $0^{\circ}22'10''$ W.	215.28	215.28			.1.36
W.Bdy.T.36 S.,R.9 W.	N. $60^{\circ}45'$ E.	32.47	32.25		3.82	
W.Bdy.T.36 S.,R.9 W.	N. $0^{\circ}13'$ E.	79.96	79.96		.30	
W.bdy.sec.18 Sub.T.36 S.,R.9 W.	East	70.19			70.19	
W.Bdy.sec.8 Sub.T.36 S.,R.9 W.	N. $0^{\circ} 5'W.$	80.00	80.00			.07
W.Bdy.sec.8 Sub.T.36 S.,R.9 W.	East	80.00			80.00	
N.Bdy.sec.9 Sub.T.36 S.,R.9 W.	East	80.00			80.00	
N.Bdy.sec.10 Sub.T.36 S.,R.9 W.	East	80.00			80.00	
E.Bdy.sec.10 Sub.T.36 S.,R.9 W.	S. $0^{\circ}01'E.$	80.00		80.00	.02	
E.Bdy.sec.15 Sub.T.36 S.,R.9 W.	S. $0^{\circ}01'E.$	80.00		80.00	.02	
N.Bdy.sec.23 Sub.T.36 S.,R.9 W.	East	80.00			80.00	
N.Bdy.sec.24 Sub.T.36 S.,R.9 W.	East	80.00			80.00	
E.Bdy.T.36 S.,R.9 W.	South	244.24		244.24		
S.Bdy.T.36 S.,R.9 W.	West	240.00				240.00
S.Bdy.T.36 S.,R.9 W.	S. $89^{\circ}53'W.$	234.19		.48		234.19
Convergency					.39	
Totals			405.49	404.72	474.74	475.62
			404.72			474.74
Error in Lat.			.77			
Error in Dep.						.88

Resurvey of West Boundary of T.36 S., R.9 W.-Continued.

August 31, 1907.

Matthew H. Galley,
U.S. Deputy Surveyor.

Volume
#
R0374

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Mayhew H. Dalley, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the retracement of the Eratl. East Boundary and the retracement and resurvey of the fractl. West Boundary of T. 36 S., R. 9 W., of the Salt Lake Base and Meridian, Utah showing the respective capacities in which they acted:

Hillman Dalley, Chainman.
John A. Elliker, Chainman.
Maeser Dalley, Moundman.
John H. Lunt, Moundman.
Earl Gower, Axman.
John H. Lunt, Axman.
Walter Lunt, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Mayhew H. Dalley, United States Deputy Surveyor, in surveying all those parts or portions of the retracement of the Eratl. East Boundary and the retracement and resurvey of the fractl. West Boundary of T. 36 S., R. 9 W., the Salt Lake Base and Meridian.

XMMX

In the State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Hillman Dalley, Chainman.
John A. Elliker, Chainman.
Maeser Dalley, Moundman.
John H. Lunt, Moundman.
Earl Gower, Axman.
John H. Lunt, Axman.
Walter Lunt, Flagman.

Subscribed and sworn to before me this 30th day of September 1907, xxxx

Senora H. Dalley
Notary Public.



My Commission Expires
May 16th, A. D. 1911.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Mayhew H. Dalley, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 11th day of April 1901, xxx, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement of the frac^l. East Boundary and the retracement and resurvey of the frac^l. West Boundary of T. 36 S., R. 9 W..

Void

For final oath of deputy see book "Z⁵" of the Salt Lake T. 35 S., R. 10 W. Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Mayhew H. Dalley
United States Deputy Surveyor.

Subscribed by said Mayhew H. Dalley, and sworn to before me }
this 21st day of December 1908, xxx }



My Commission Expires
May 16th, A. D. 1911.

Notary Public.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 22, 1913.

The foregoing field notes of the survey of retracement of East, and retracement and resurvey of the West Boundaries of Township No. 36 South, Range No. 9 West, of the Salt Lake Base and Meridian, Utah,

executed by Mayhew H. Dalley
under his contract No. 241, dated April 11, 1901, 189, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements and re-surveys they describe, are hereby approved.

Thomas M. Howell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.